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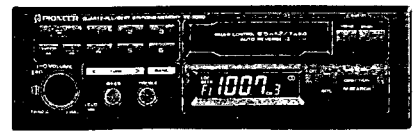
Service Manual



The photo shows the model KE-3090B.

ORDER NO.
CRT1167

CASSETTE CAR STEREO WITH FM/MW/LW ELECTRONIC TUNER

KE-3090SDK WG

KE-3090 EW

KE-3090B EI

KE-3060SDK WG

KE-3060 EW

KE-3060B EI

CASSETTE CAR STEREO WITH FM/AM ELECTRONIC TUNER

KE-3070QR ES

KE-3040 ES

See the Service manual CX-166 (CRT1094) when servicing the cassette mechanism assy.

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PIONEER ELECTRONIC [EUROPE] N.V. Keetberglaan 1, 2740 Beveren, Belgium
PIONEER ELECTRONICS AUSTRALIA PTY. LTD. 178-184 Boundary Road, Braeside, Victoria 3195, Australia TEL: [03] 580-9911

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6. ADJUSTMENT

- **Connection Diagram**

NOTICE:

Select C1 so that total capacity of 80pF is attained from the direction of the receiver jack.

Z: Output impedance of SSG.

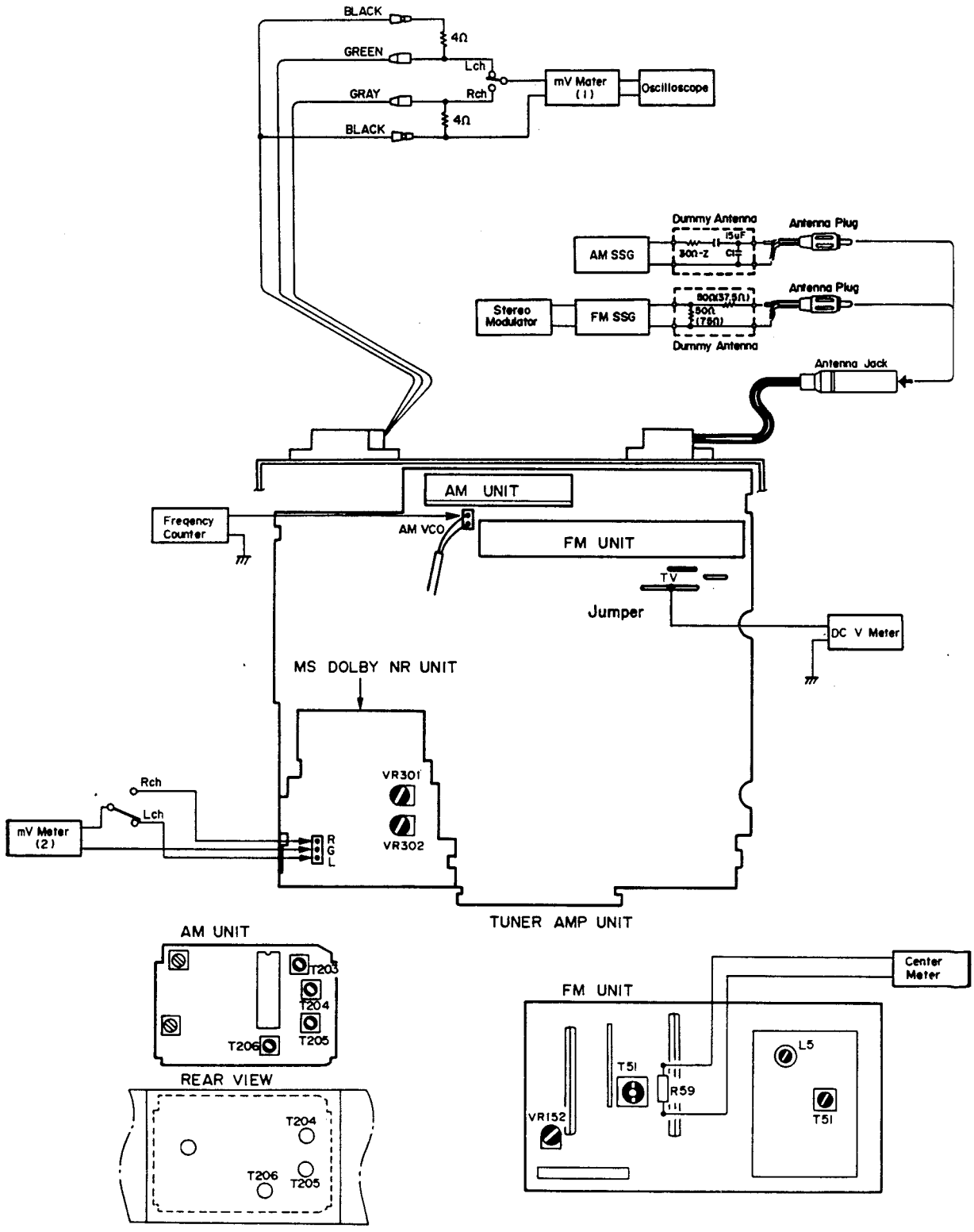


Fig. 8

MW/LW ADJUSTMENT (WG, EW, EI)

	No.	AM SSG(400Hz, 30%)		Displayed Frequency (kHz)	Adjusting Point	Adjustment Method (Switch Position)
		Frequency(kHz)	Level(dB)			
Tuning Volt	1	(MW MODE)		1,602	T203	Verify that DC V Meter is less than 6.5V
	2	(LW MODE)		153	——	Verify that DC V Meter is more than 2.0V
IF	1	999	20−25	999	T204,205, 206	mV Meter(1):Maximum

AM ADJUSTMENT (ES) *:When tuning step at 10kHz.

	No.	AM SSG(400Hz, 30%)		Displayed Frequency (kHz)	Adjusting Point	Adjustment Method (Switch Position)
		Frequency(kHz)	Level(dB)			
Tuning Volt	1			1,602 *(1,620)	T203	Verify that DC V MeterV is less than 6.5V
	2			531 *(530)	——	Verify that DC V Meter is more than 2.0V
IF	1	999 *(1,000)	20−25	999 *(1,000)	T204,205, 206	mV Meter(1):Maximum

FM ADJUSTMENT ※ Stereo MOD.: 1kHz, L+R=90% , Pilot-10%

	No.	FM SSG(400Hz, 100%)		Displayed Frequency (MHz)	Adjusting Point	Adjustment Method (Switch Position)
		Frequency(MHz)	Level(dB)			
IF	1	98.1 Unmodulated	60	98.1	T51	Center Meter:0
Front End	1			108.0	L5	DC V Meter:7.4V
	2			87.5	—	Verify that DC V Meter is more than 0.7V
	3	98.1	5−10	98.1	T1	mV Meter(1):Maximum
ARC	1	98.1※	35	98.1	VR152	mV Meter(1):Separation 5dB

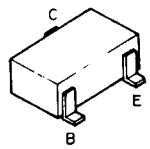
DOLBY NR ADJUSTMENT (3090SDK, 3090, 3090B, 3070QR)

No.	Cassette Tape	Adjusting Point	Adjustment Method (Switch Position)
1	NCT-150(400Hz, 200nwb/m)	VR301(Lch) VR302(Rch)	mV Meter(2):-10dBs ±1dB (DOLBY NR Switch:OFF) (METAL Switch:OFF)

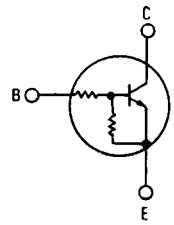
• ICs and Transistors

DTC124ES
DTC144ES
DTC314TS

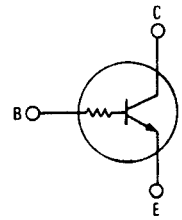
DTC124EK



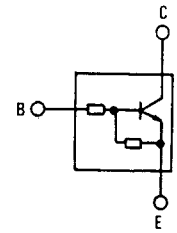
DTC124ES
DTC144ES



DTC314TS

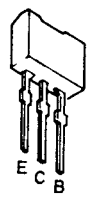


DTC124EK



2SK435

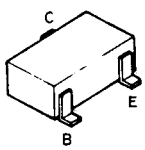
2SD1919



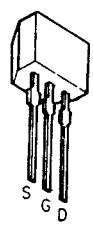
2SA1048
2SC1740S
2SC2458
2SC3113

2SC2026
2SC2498

2SA1162
2SA1179
2SC2712
2SD601

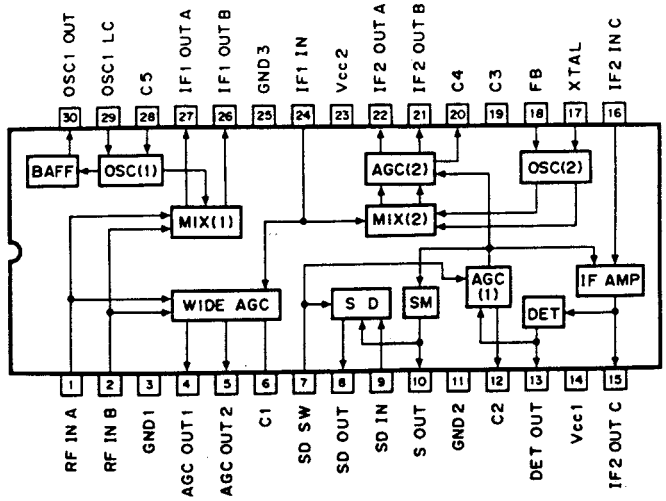


2SK330

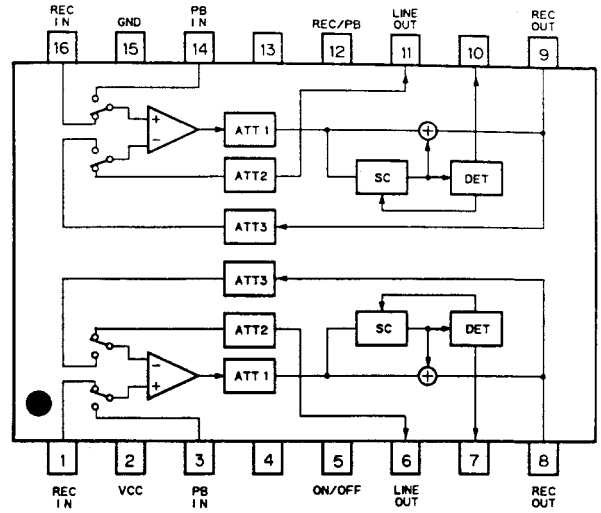


2SJ106

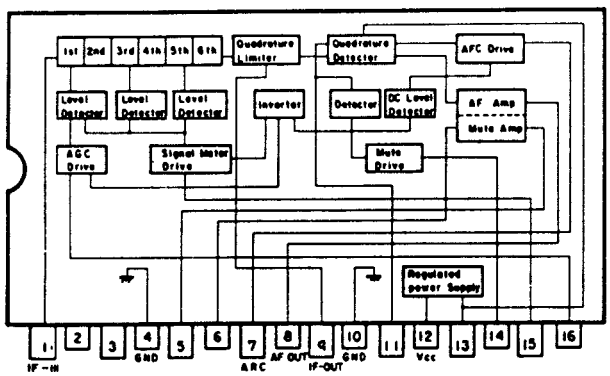
PA4010



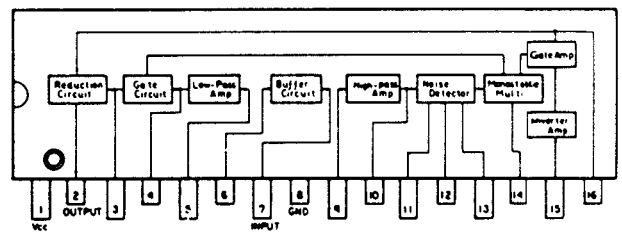
CX1102P



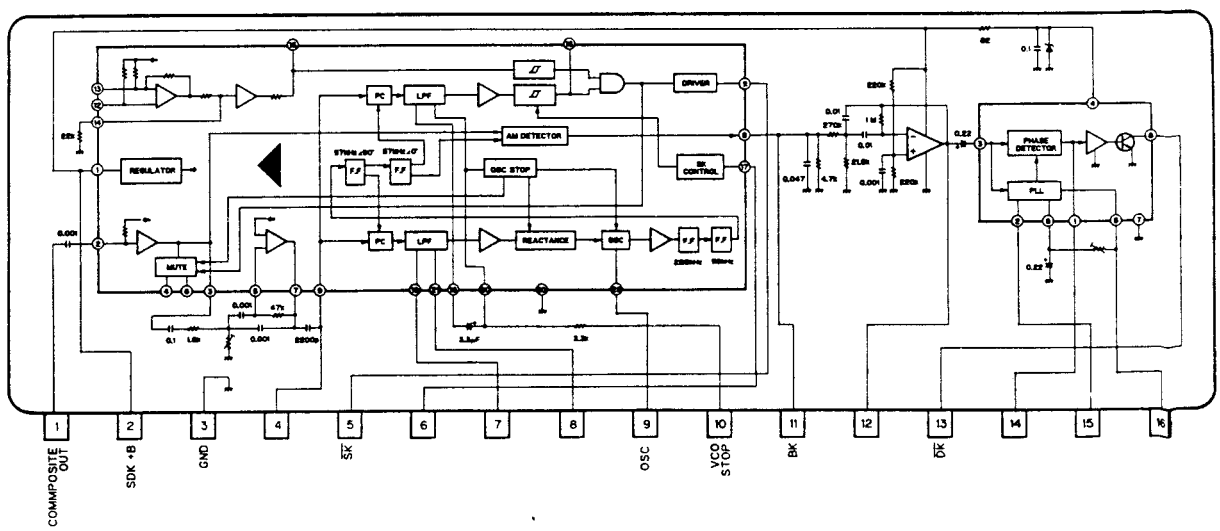
LA1140B



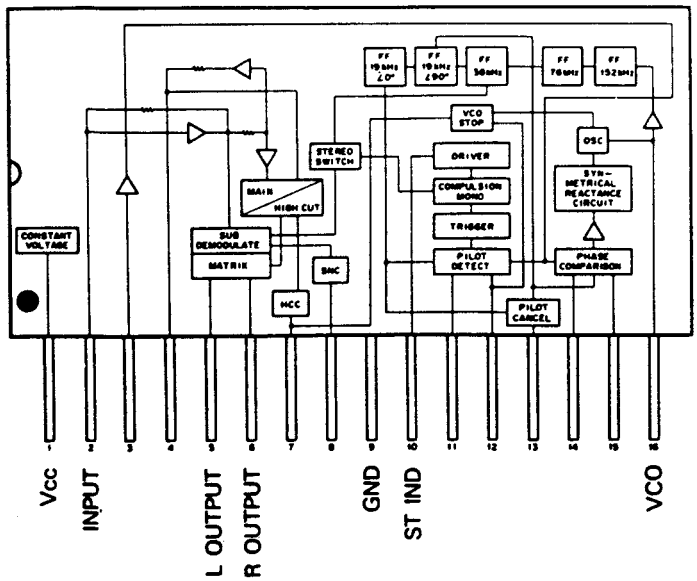
LA2110



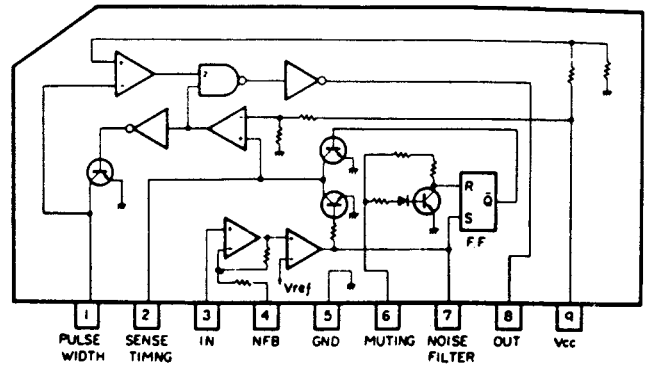
KHA142



LA3430P



PA0011



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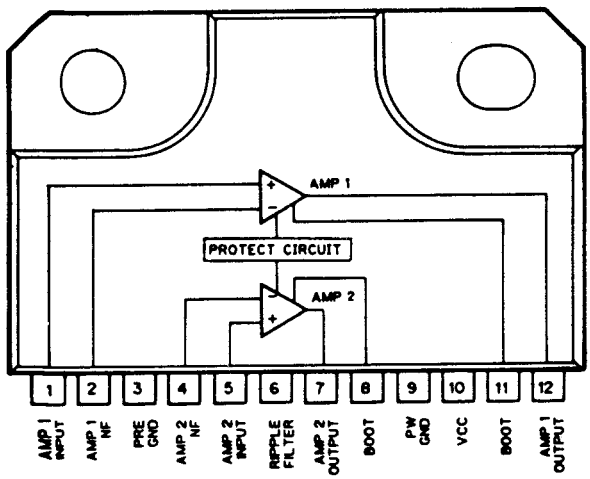
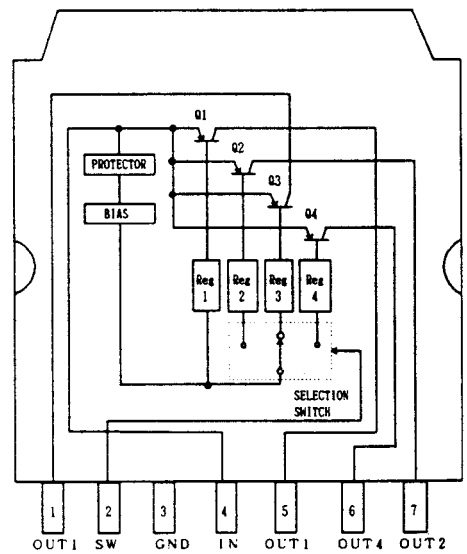
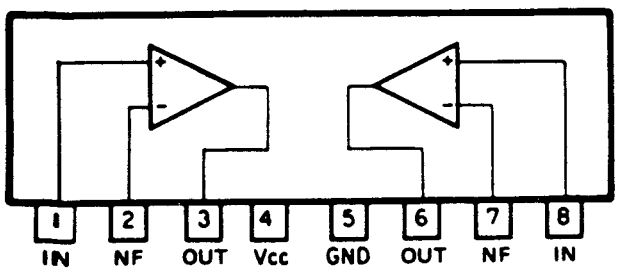


TA8214K



M51522AL



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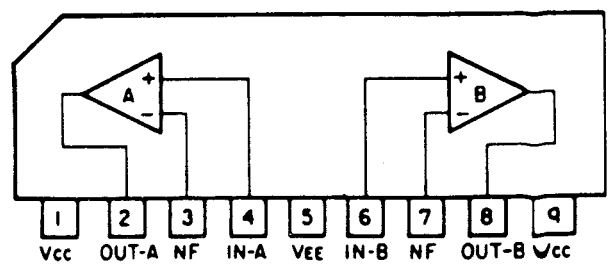
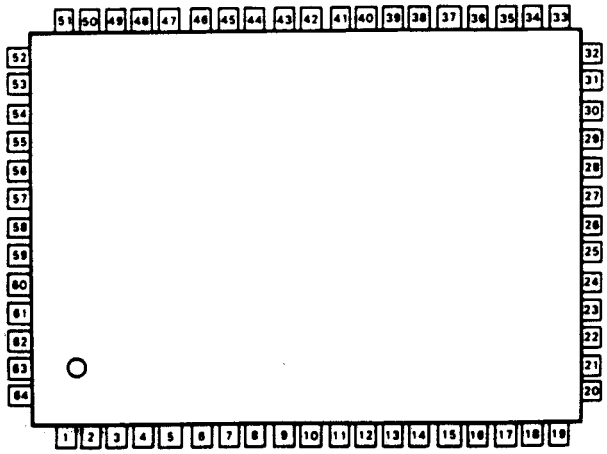


*PD4163



*IC's marked by * are MOS type.*
Be careful in handling them because they are very liable to be damaged by electrostatic induction.

●Pin Functions

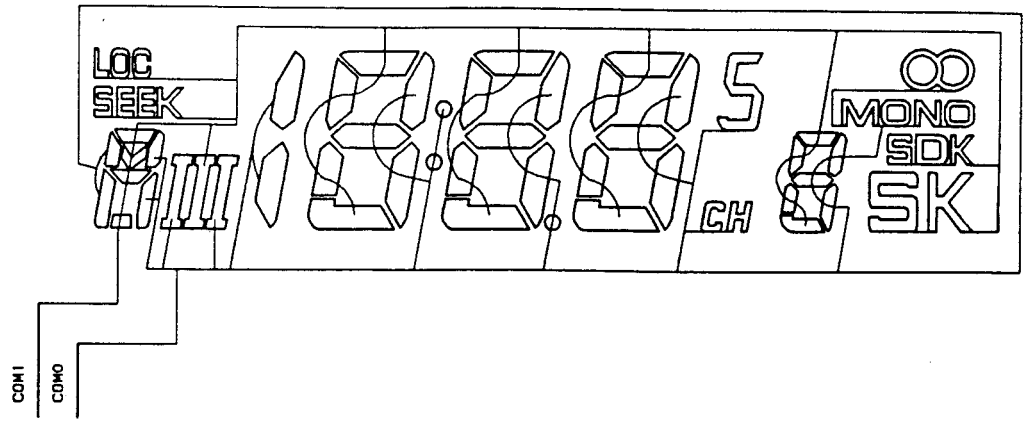
Pin No.	Pin Name	I/O	Function and Operation
1	NC	—	No. connected to internal chips.
2 3	EO1 EO2	Output CMOS 3 state	Pll error output. H level output by these terminals when division of local oscillator frequency (VCO output) is higher than reference frequency. L level output when lower. This output is applied to a varactor diode, via an external low pass filter. EO1 and EO2 output identical waveforms.
4 8	GND GND	— —	GND terminal
5	AM IN		Not used.
6	VCO IN	Input	AM: Inputs 0.6 — 15 MHz (0.3 Vp-p MIN) local oscillator reference frequency (VCO output). This terminal is active when direct division system is selected. FM: Inputs 15 — 150 MHz (0.5 Vp-p MIN) local oscillator reference frequency (VCO output). This terminal is active when swallow counter method is selected.
7	CE	Input	Device signal input. H level during normal device operation, L level when device is not being used. PLL is in disable status while this terminal is L level. For models without clocks, internal clock and CPU operation is halted while this terminal is L level, and memory is maintained by low demand current (10 μA MAX). Change of CE terminal from L to H results in device reset and the program to start from address 0.
9 10	FM/AM LW	Output CMOS Pushpull	Power supply switching output terminal from tuner. Output as illustrated in following table according to outputs of two terminals.
11	MUTE	Output CMOS Pushpull	Mute output. Output for elimination of shock noise when PLL lock is released. Active when high.
12	$\overline{DK}$ IN	Input	Inputs message recognition signal (DK) sent during traffic information broadcasts only. Since the DK signal is sent by amplitude modulation of a 57 kHz subcarrier wave by 125 Hz, it counts the input signals in accordance with the program. A DX signal is judged as being preset when 125 Hz is not detected twice consecutively. DK signal is judged as not being preset when 125 Hz is not detected 4 times consecutively. An interrupt operation is performed when a DK signal is judged as being present. This count is only performed in the SDK mode.
13	$\overline{SK}$ IN	Input	Determines whether traffic information is being broadcast and inputs a broadcast detect signal (SK). Broadcast is detected when input signal is L level, and "SK" indicator is displayed. Besides being used as the SDK mode auto tuning stop signal, SK input controls the SK mode and SK alarm functions.

BAND / PIN	FM	MW	LW
FM/AM	H	L	L
LW	L	L	H

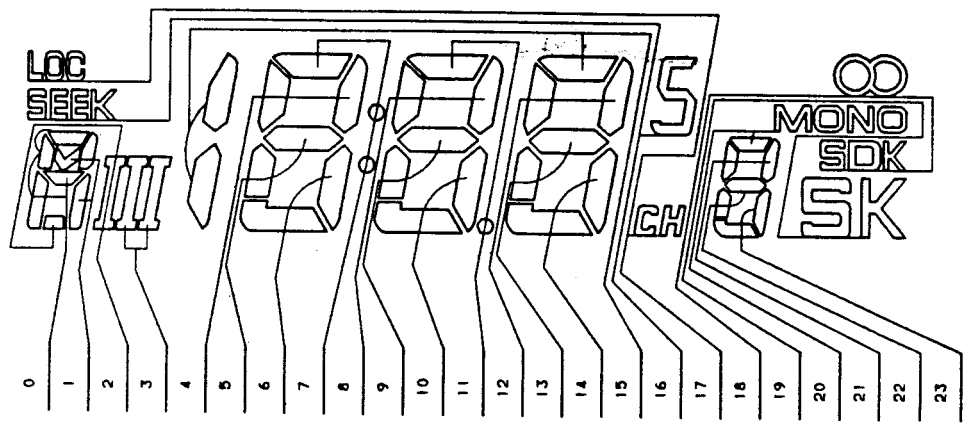
<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th>Function and Operation</th></tr>
<tr><td>14</td><td>$\overline{ST}$</td><td>Input</td><td>Inputs stereo broadcast detection signal. Stereo is detected when input signal is L level, and "ST" indicator is displayed. Display is cleared when input signal is at H level. "ST" indicator is OFF during mute signal output.</td></tr>
<tr><td>15</td><td>TAPE</td><td>Input</td><td>Tape signal input terminal. Since this terminal is A/D (analog/digital) input, 2.461 V and above is the H level tape mode.</td></tr>
<tr><td>16</td><td>IF</td><td>Input</td><td>MW, LW band center frequency input terminal.</td></tr>
<tr><td>17</td><td>SD</td><td>Input</td><td>Judges whether or not a broadcast is present during auto tuning. A broadcast is judged as being present when L level is input.</td></tr>
<tr><td>18</td><td>SI</td><td>Input</td><td>Not used</td></tr>
<tr><td>19
~
22</td><td>NC</td><td></td><td>Not used</td></tr>
<tr><td>23</td><td>$\overline{SEEK}$</td><td>Output
CMOS</td><td>"L" level: SEEK, BSM, BSA and PSCN</td></tr>
<tr><td>24
25</td><td>XO
XI</td><td>Input
CMOS</td><td>Quartz oscillator terminal connection terminal. 4.5 MHz quartz crystal used.</td></tr>
<tr><td>26
58</td><td>VDD
VDD</td><td></td><td>Device power supply terminal. 5V ±10% voltage supplied.</td></tr>
<tr><td>27</td><td>PEE</td><td>Output
CMOS</td><td>Alarm output terminal. Alarm output when SK in SDK mode remains at H level continuously for more than 30 seconds.</td></tr>
<tr><td>28</td><td>MONO</td><td>Output
CMOS</td><td>Controlled by MONO key. L level for MONO, H level output for AUTO.</td></tr>
<tr><td>29</td><td>DK OUT</td><td></td><td>Controlled by DK IN (terminal # 12) input signal. L level output when DK IN input signal is detected as 125 Hz while SK IN (terminal # 13) input is L level. Since DK IN measurement operation is only performed in SDK mode, terminal is always H in SDK mode except under above noted conditions.</td></tr>
<tr><td>30
31</td><td>LOCH
LOCL</td><td>Output
CMOS</td><td>Halt sensitivity switching terminals controlled by LOC and BSM keys.
<table>
<tr><th></th><th>DX·SEEK (PSCN)</th><th>LOC·SEEK</th><th>BSM-L</th><th>BSM-M (AM)</th></tr>
<tr><td>LOCH</td><td>L</td><td>L</td><td>L</td><td>L</td></tr>
<tr><td>LOCL</td><td>L</td><td>H</td><td>L</td><td>H</td></tr>
</table>
<table>
<tr><th></th><th>BSM-H</th><th>During broadcast reception</th></tr>
<tr><td>LOCH</td><td>H</td><td>L</td></tr>
<tr><td>LOCL</td><td>H</td><td>L</td></tr>
</table></td></tr>
<tr><td>32
~
55</td><td>LCD23
~
LCD0</td><td>Output
CMOS</td><td>Segment signal output terminal to LCD. LCD display performed using COM0, COM1 matrices.</td></tr>
<tr><td>48
~
55</td><td>KS7
~
KS0</td><td>Output
CMOS</td><td>Key return signal source output terminal.</td></tr>
<tr><td>56
57</td><td>COM0
COM1</td><td>Output
CMOS</td><td>Common signal to LCD. GND, 1/2VDD, VDD values (5 ms interval) output at 100 Hz cycle. Segments between these terminals and LCD0 — LCD23 with ±VDD potential difference are lit.</td></tr>
<tr><td>59
~
62</td><td>K3
~
K0</td><td>Input</td><td>Key matrix input terminal.</td></tr>
<tr><td>63</td><td>S.L.</td><td>Input</td><td>Station level analog voltage input. Used for broadcast detection in MW, LW band auto tuning.</td></tr>
<tr><td>64</td><td>B.U.</td><td>Input</td><td>Back up voltage sense terminal.
"H" Level: Back up on</td></tr>
</table>

• LCD (CWW1216)

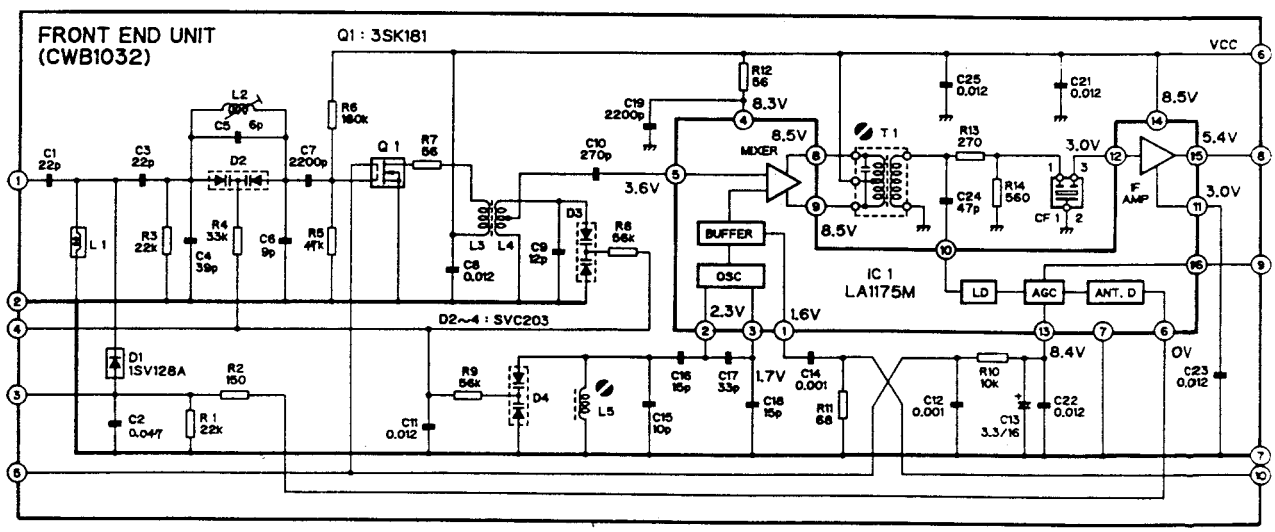
COMMON



SEGMENT



• Front End Unit (CWB1032)



7. CONNECTION DIAGRAM (KE-3090SDK)

MS DOLBY NR UNIT

IC,Q Q402 Q403 Q401 IC401 IC301

ADJ. VR301 VR302

TUNER AMP UNIT

Q,IC Q664 Q252 IC801 IC251 Q663 Q702 Q703 Q713 Q712 Q821 Q711 IC821 Q822 Q705 IC701 Q823 IC771 Q669 Q653 Q655 Q715 Q707 Q660 Q253 Q254 Q659 Q657 Q654 Q665 IC451 Q605 Q652 Q651 IC651 IC551

ANT

TO AM UNIT

TO FM UNIT

P.C.BOARD UNIT

S1-1 S1-2 S1-3

S1 : FWD/REV SWITCH

REV L-CH

FWD L-CH

REV R-CH

FWD R-CH

HD1 : HEAD EPB1001

FRONT R UNIT

LCD

LCD:CWW1216

S953 MS

S951 METAL

S952 DOLBY NR

VR451 TREBLE

VR452 BASS

VR453 BALANCE

VR454 FADER

4.6v

3.8v

1.5v

0.8v

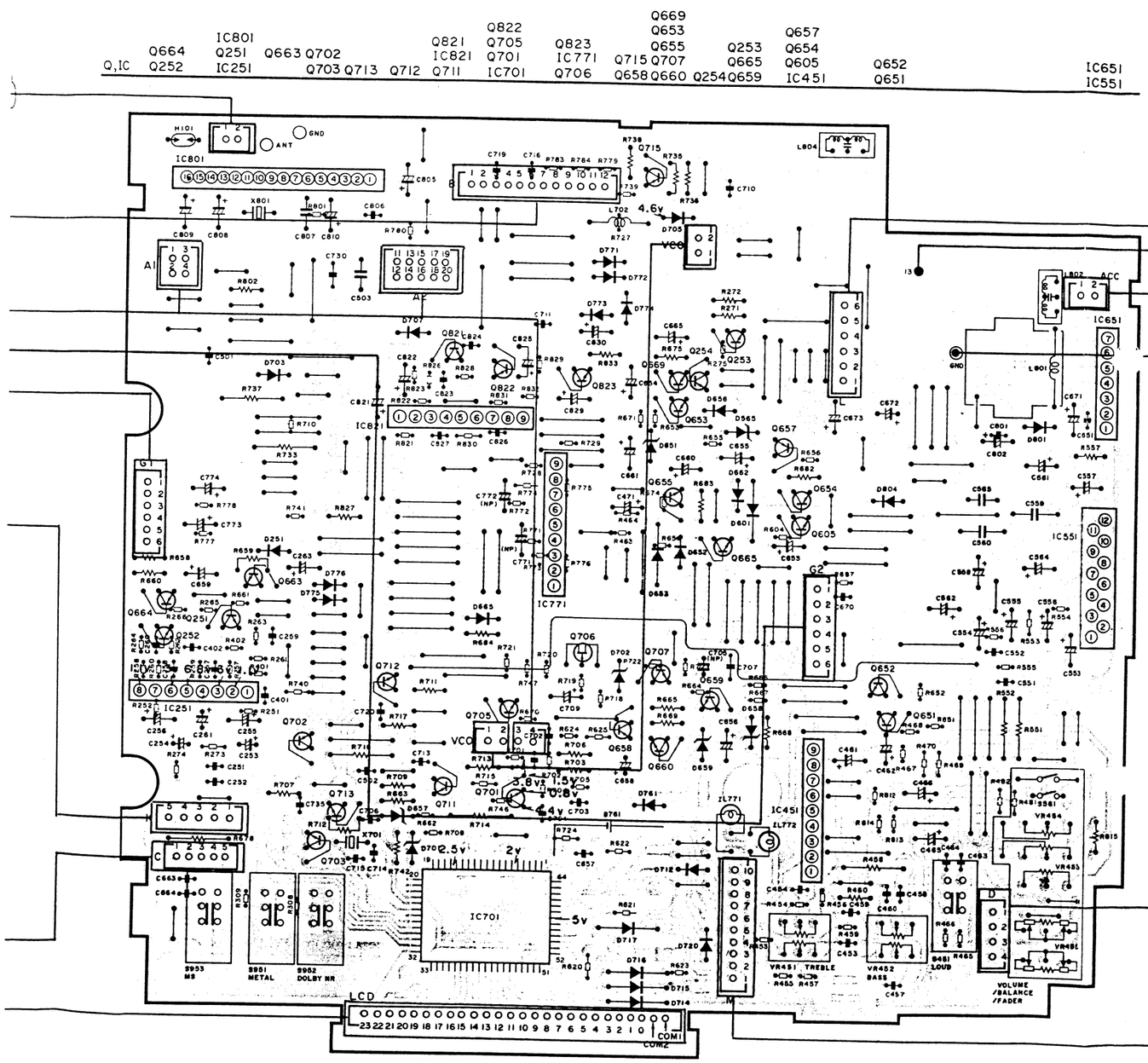
4.4v

2.5v

2v

5v

TUNER AMP UNIT


Q,IC
Q664 Q252
IC801 Q251 IC251
Q663 Q702 Q703 Q713 Q712
Q821 IC821 Q711
Q822 Q705 Q701 IC701
Q823 IC771 Q706
Q715 Q669 Q653 Q655 Q707 Q658 Q660 Q254
Q253 Q665 Q659
Q657 Q654 Q605 IC451
Q652 Q651
IC651 IC551
H101
ANT
GND
IC801
X801
C805
C719 C716 P783 R784 R779
R738
Q715
R735
C710
L804
R739
R736
L702
4.6v
R727
D705
VCO
C809 C808
C807 C810
C606
R780
R801
A1
A2
C730
C503
R802
D701
D771
D772
D773
D774
C711
C824
C825
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R828
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R737
C821
IC821
R710
R733
R821
C827
R830
C826
R729
P724
R775
C774
R778
C773
R777
R741
R827
C772 (NP)
R771
R772
C771 (NP)
R773
C776
IC771
R658
D251
C263
R659
D776
D775
Q663
R660
C659
R265
R661
Q664
R264
Q251
R263
C259
R262
R261
R402
C402
C401
R740
R252
IC251
C256
C254
R274
C261
C255
R273
C253
C251
C252
Q252
Q702
R707
Q713
C735
R712
X701
C715
C714
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C664
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R662
R708
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2v
R724
C657
R722
C712
R621
D717
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D715
D714
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33
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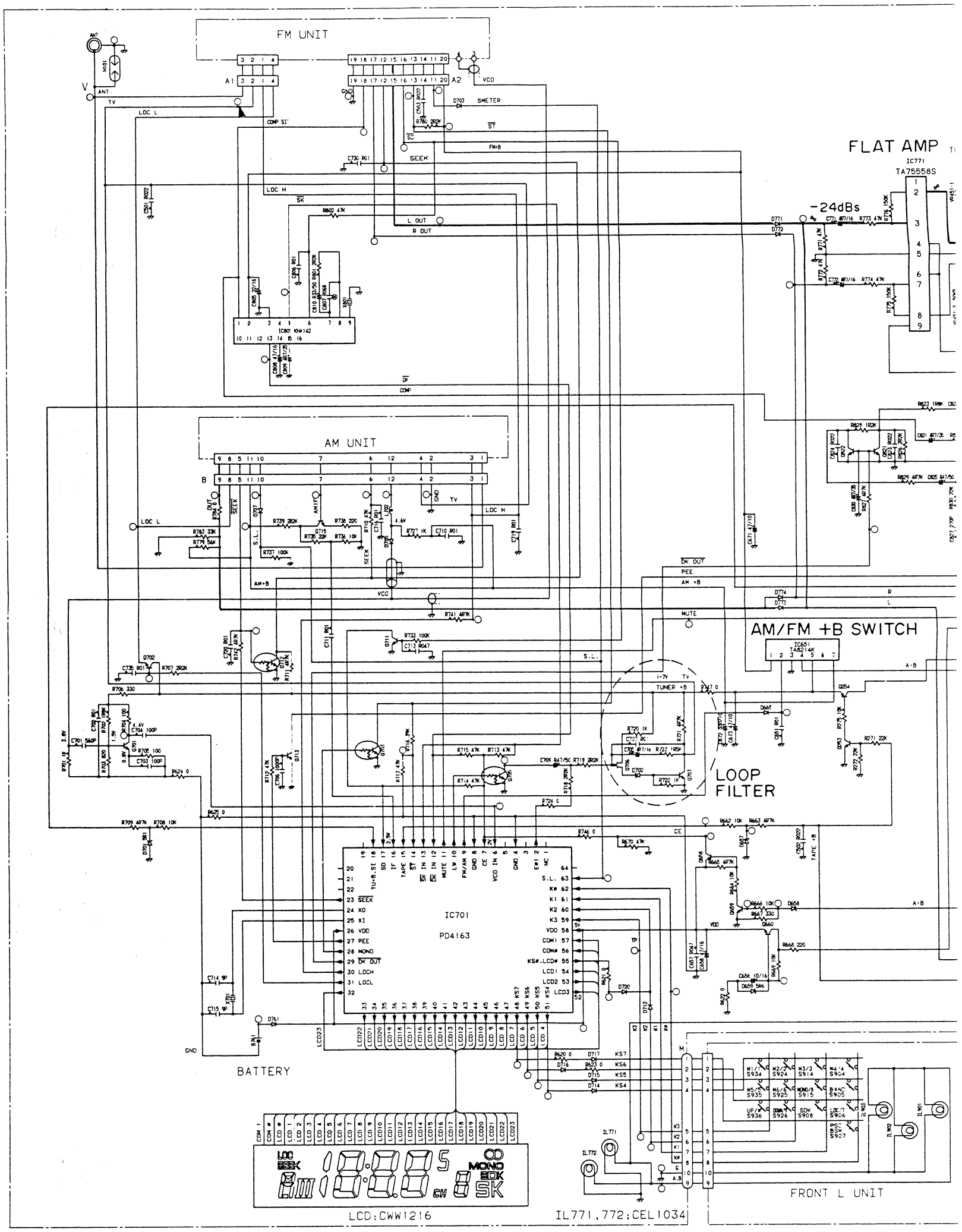
52
R712
R711
C722
R717
R716
C713
C702
R714
Q712
Q705
R670
R713
R715
Q701
R746
C706
D657
C703
B761
D761
R747
R719
C709
P718
P722
R720
R721
R684
D665
Q706
D702
Q707
C705 (NP)
R707
R664
Q659
R665
R669
C656
Q660
D659
Q658
R624
R625
R706
R703
C698
R668
Q652
R652
Q651
R651
C481
R468
C462
C467
R470
R469
C466
R812
R814
R813
C465
R492
R481
B581
VR484
R815
VR483
VR482
VR481 TREBLE
R465 R457
VR482 BASS
C457
B481 LOUD
R465
VOLUME /BALANCE /FADER
IL771
IL772
IC451
R458
C464
R454
R456
C459
C460
C458
C453
R466
C463
D
R453
M
LCD
23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
COM1
COM2
S953 MS
S951 METAL
S952 DOLBY NR
L802
ACC
IC651
GND
L801
C672
C673
C671
C801
C802
D801
C661
R557
C557
C559
C560
C558
C555
C556
C554
C553
C552
C551
R555
R552
R551
R553
R554
C364
C363
C562
C561
D804
R604
Q605
C654
C655
C660
R683
D601
D665
D652
Q665
D683
R682
Q654
R656
Q657
D565
R653
R633
Q656
Q653
Q669
Q254
R675
C665
R272
R271
Q253
R273
Q654
R671
C661
C471
R464
R463
R774
R775
R776
IC771
G2
R687
C670
R682
C687
C688
C689
C682
C681
C554
C556

8. SCHEMATIC CIRCUIT DIAGRAM (KE-3090SDK)

NOTE:

Indicates a chip capacitor.
Indicates a chip resistor.
Indicates a chip diode.
Indicates a chip transistor.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022



Q254,654,657,658	2SA1048
Q251,252,253,655,659, 660,663,664,702,707,713 Q21,822,827	2SC2458
Q701	2SC2498
Q711,715	2SC3113
Q669,653	2SD1919
Q605,703,705,712	DTC144ES
Q665	DTC314TS
Q706	2SK330

D651,652	2SD1468S
D705	1SS136
D801	MA700-TX
D701	MA700
D702	HZS7BEB2
D657,701	HZS9LEB2
D659	HZS5B3EB2
D658	HZS7B5EB2
D651	HZS9LEB
D505	HZS10EB

D601,653,714,715,716,717	1SS355
OTHER DIODE	SS133

FRONT L UNIT

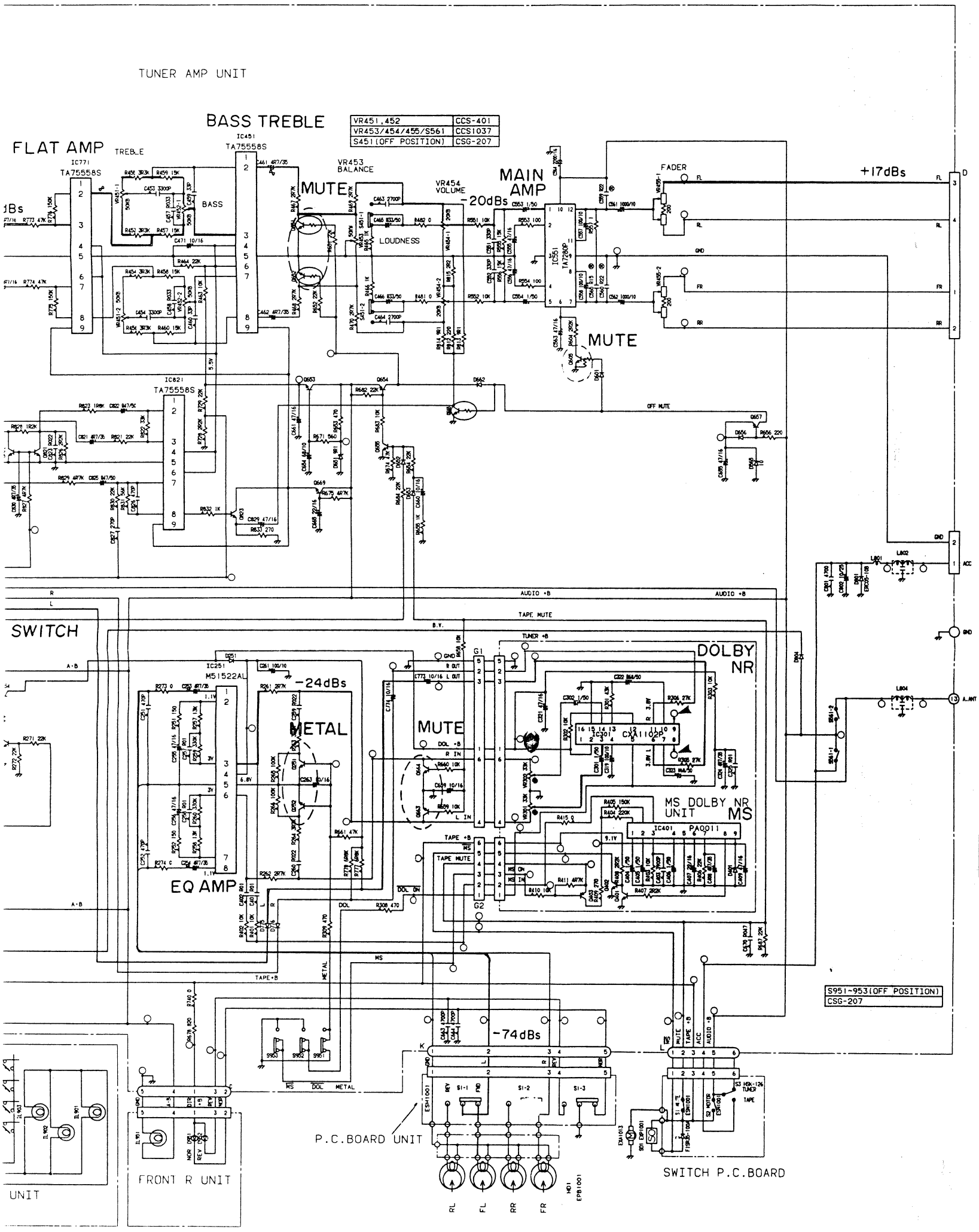
IL901~903	CEL1004
S914~916,914,915,924~926 S24~S35	CSG1021

FRONT R UNIT

D951,952	SLR-320DU3LM
IL951	CEL1004

TUNER AMP ASSY

TUNER AMP UNIT



MS DOLBY NR UNIT

Q401,402	2SC2458
Q403	2SA1048
D401	HZS9R1EB2
VR301,302	VRTB6VS333

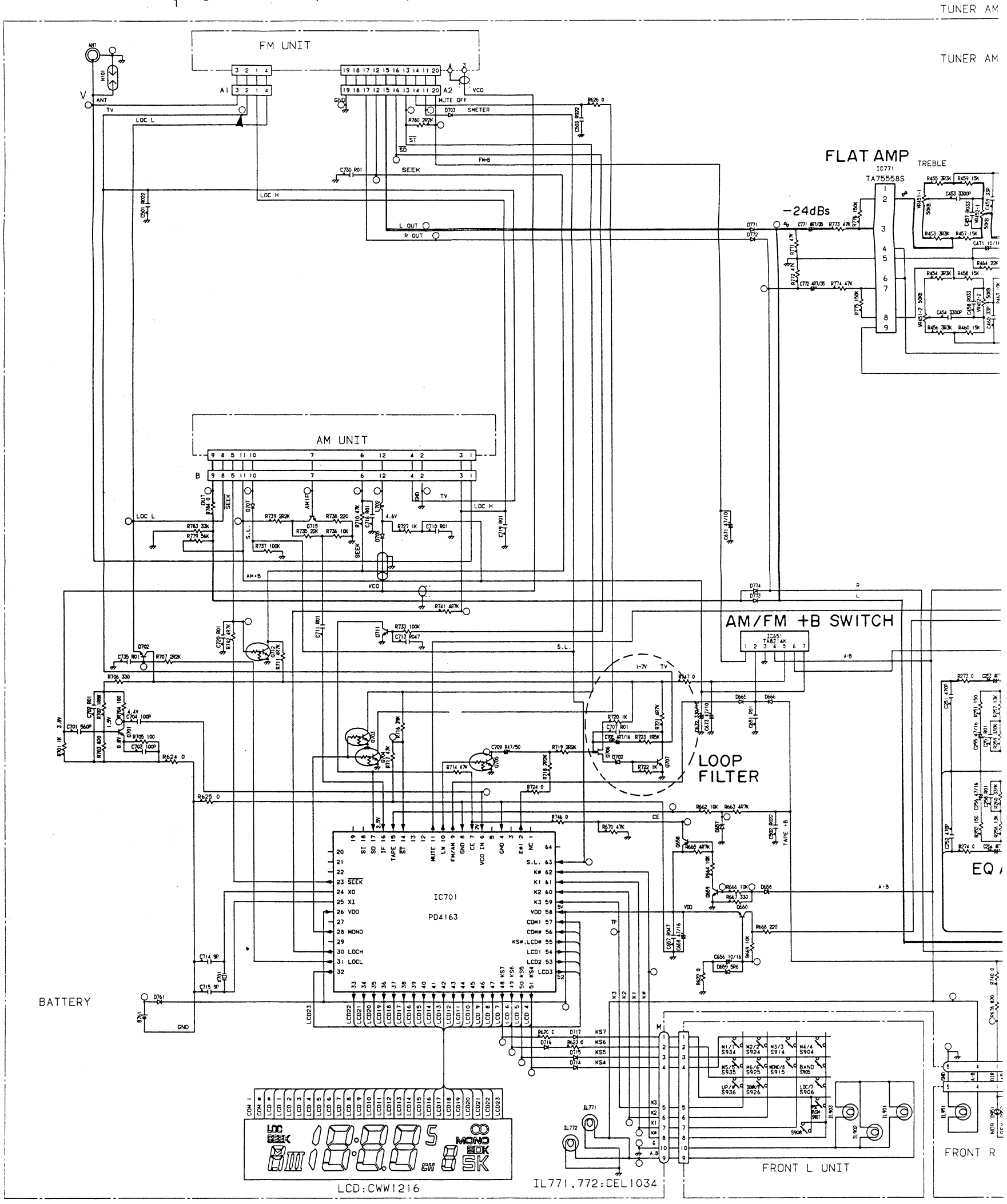
Fig. 10

9. SCHEMATIC CIRCUIT DIAGRAM (KE-3090, 3090B)

NOTE:

Indicates a chip capacitor.
Indicates a chip resistor.
Indicates a chip diode.
Indicates a chip transistor.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022



TUNER AMP UNIT

Q654,657,658	2SA1048
Q651,652,655,659, 660,663,664,702,707	2SC2458
Q701	2SC2498
Q711,715	2SC3113
Q669,653	2SD1919
Q695,703,705,712,704	DTC144ES
Q651,652	2SD1468S
Q706	2SK330

D705	1SS135
D691	ERC05-10B
D761	MA700
D702	HZS3R3EB2
D657	HZS5R1EB2
D659	HZS5R6JB2
D655	HZS7R5EB2
D651	HZS9R1EB1
D565	HZS10EB1

D601,653,714~717	1S1555
OTHER DIODE	1SS133

FRONT L UNIT

IL901~903	CEL1004
S904~908,914,915,924~926 934~936	CSG1021

FRONT R UNIT

D951,952	SLR-322DU3LM
IL951	CEL1004

s are

TUNER AMP ASSY

TUNER AMP UNIT

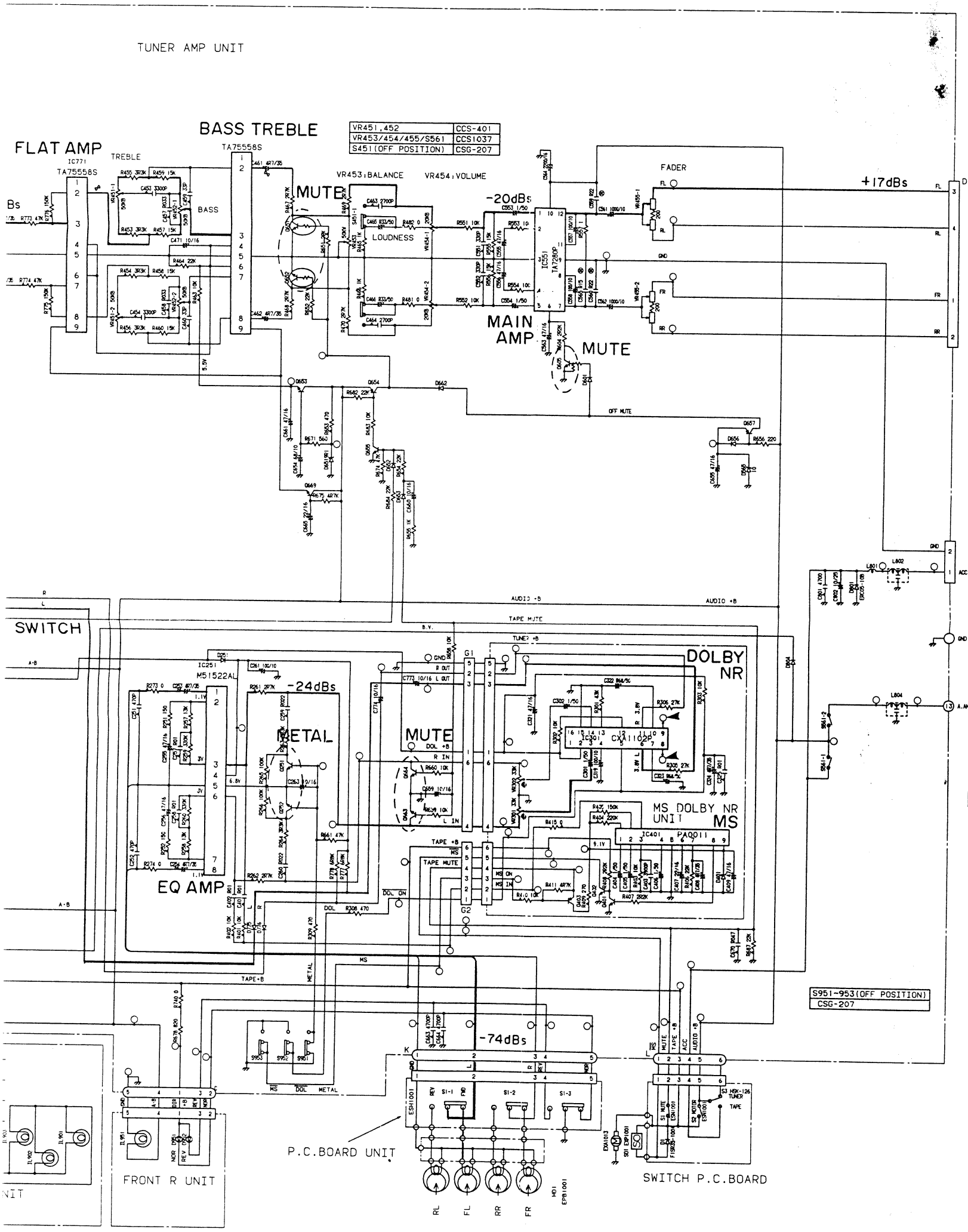
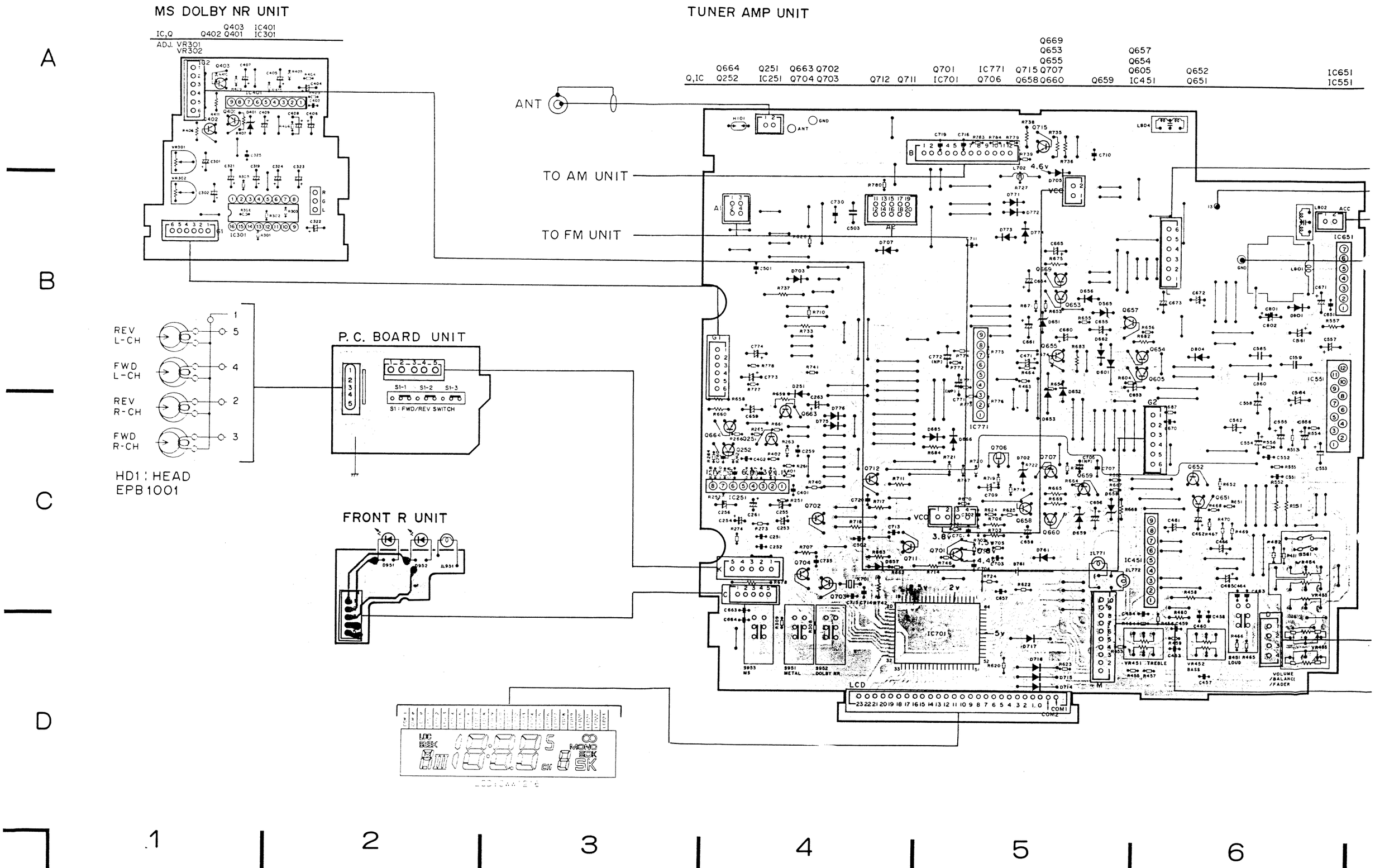


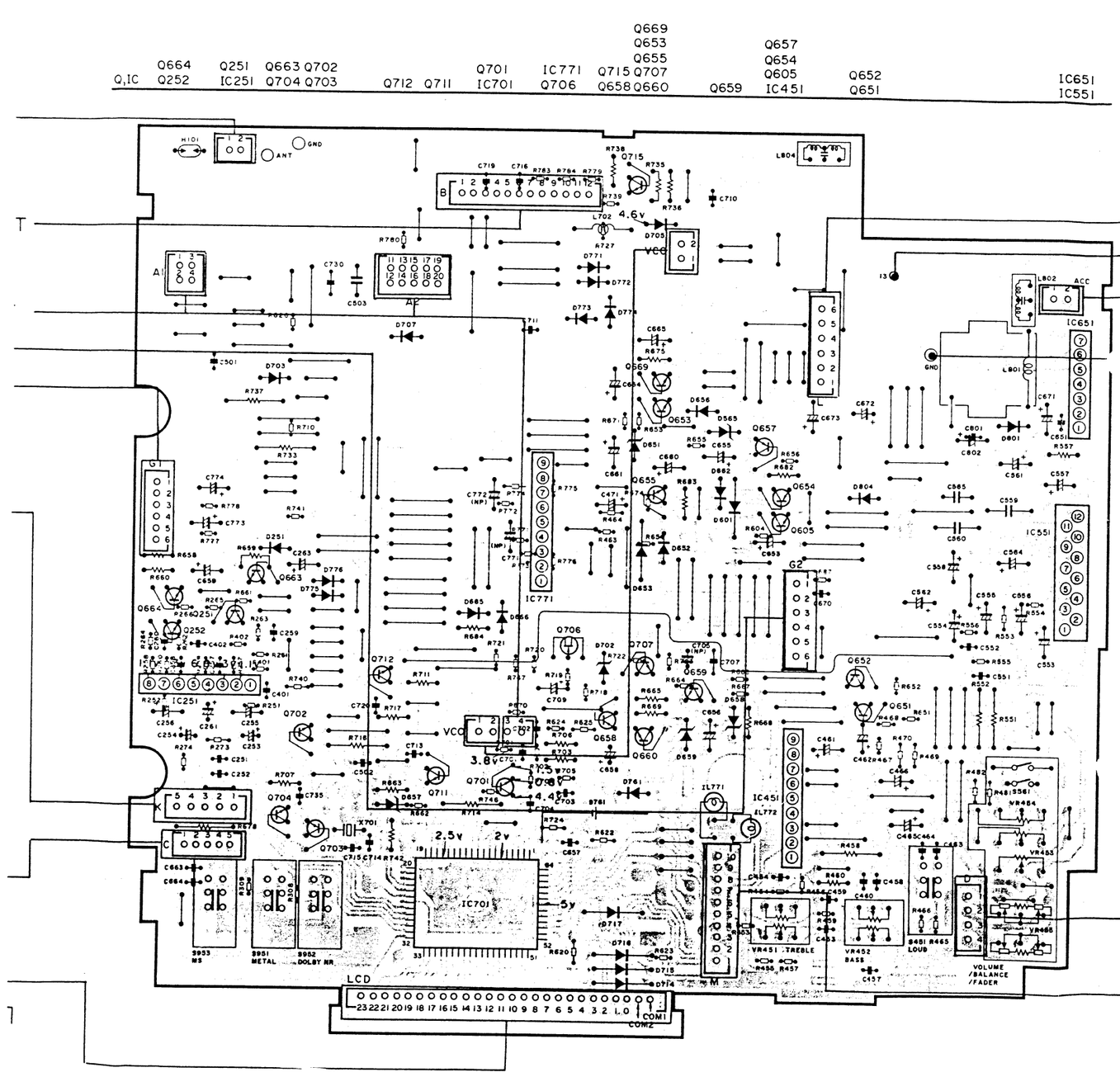
Fig. 11

10. CONNECTION DIAGRAM (KE-3090, 3090B)

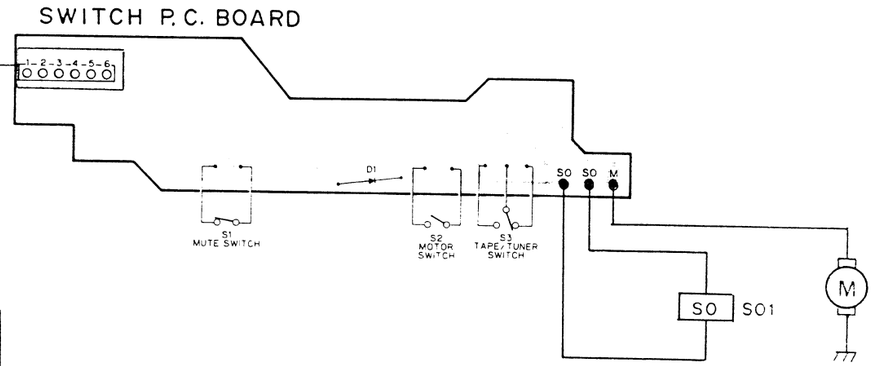


TUNER AMP UNIT

Q,IC | Q664 Q252 | Q251 IC251 | Q663 Q702 Q704 Q703 | Q712 | Q711 | Q701 IC701 | IC771 Q706 | Q715 Q669 Q653 Q655 Q658 | Q707 Q660 | Q659 | Q657 Q654 Q605 IC451 | Q652 Q651 | IC651 IC551



SWITCH P.C. BOARD



1	ACC		7
2	GND	FL	8
3	RL		9
4		FR	10
5	RR		11
6		GND	12
13	AUTO ANT		20
14			21
15			22
16			23
17			24
18			25
19			26

FRONT L UNIT

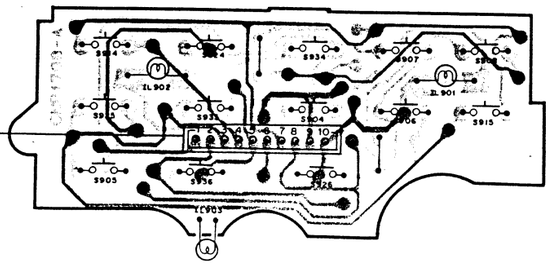
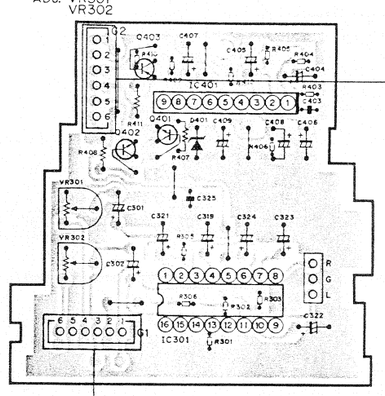


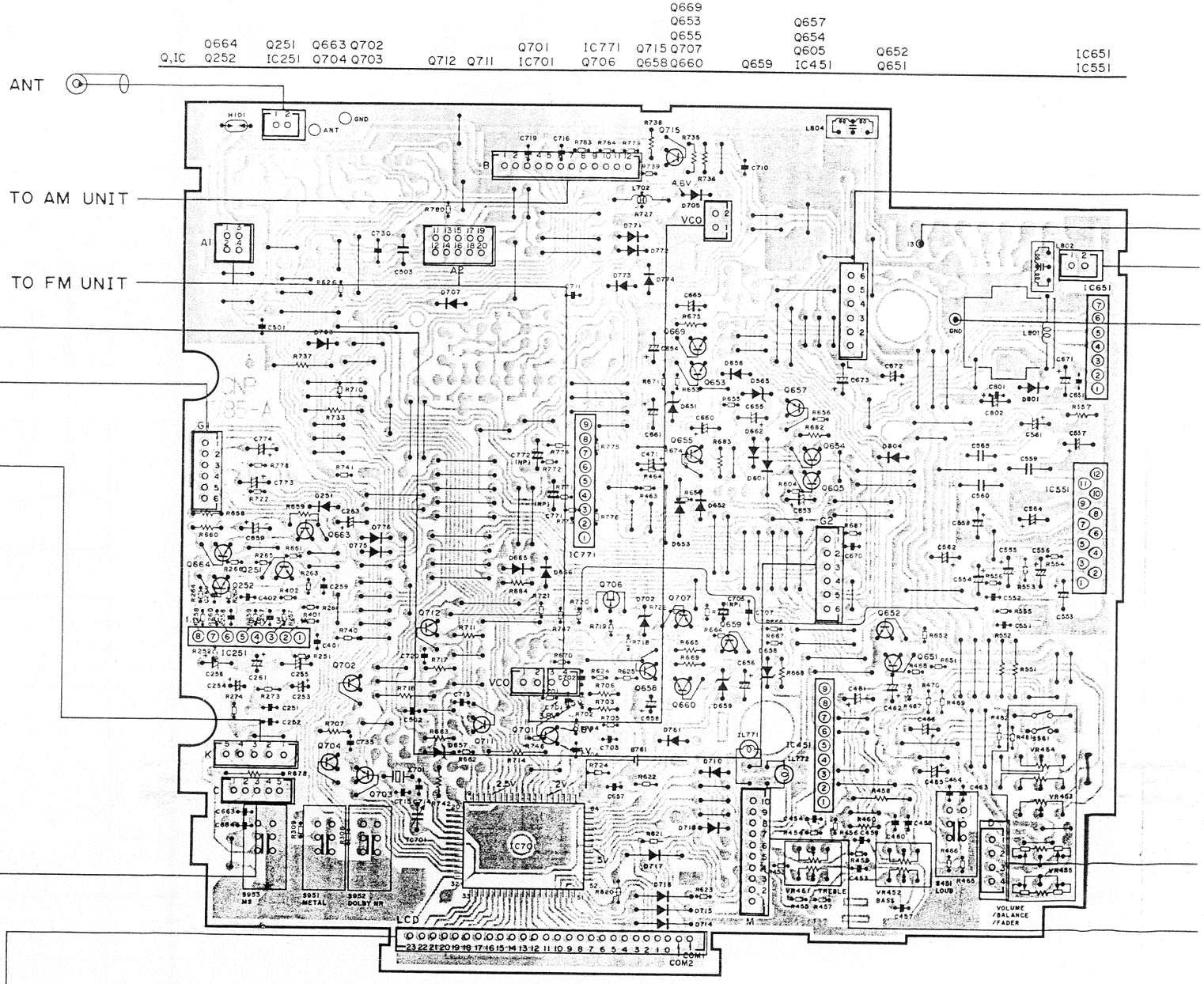
Fig.12

11. CONNECTION DIAGRAM (KE-3070QR)

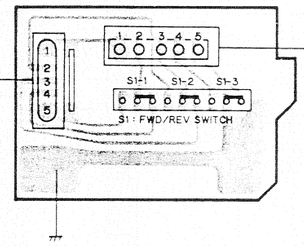
MS DOLBY NR UNIT

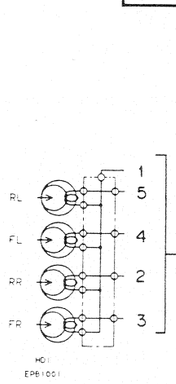


TUNER AMP UNIT

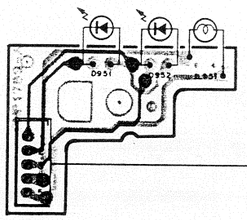


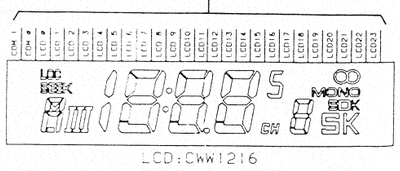
P.C. BOARD UNIT





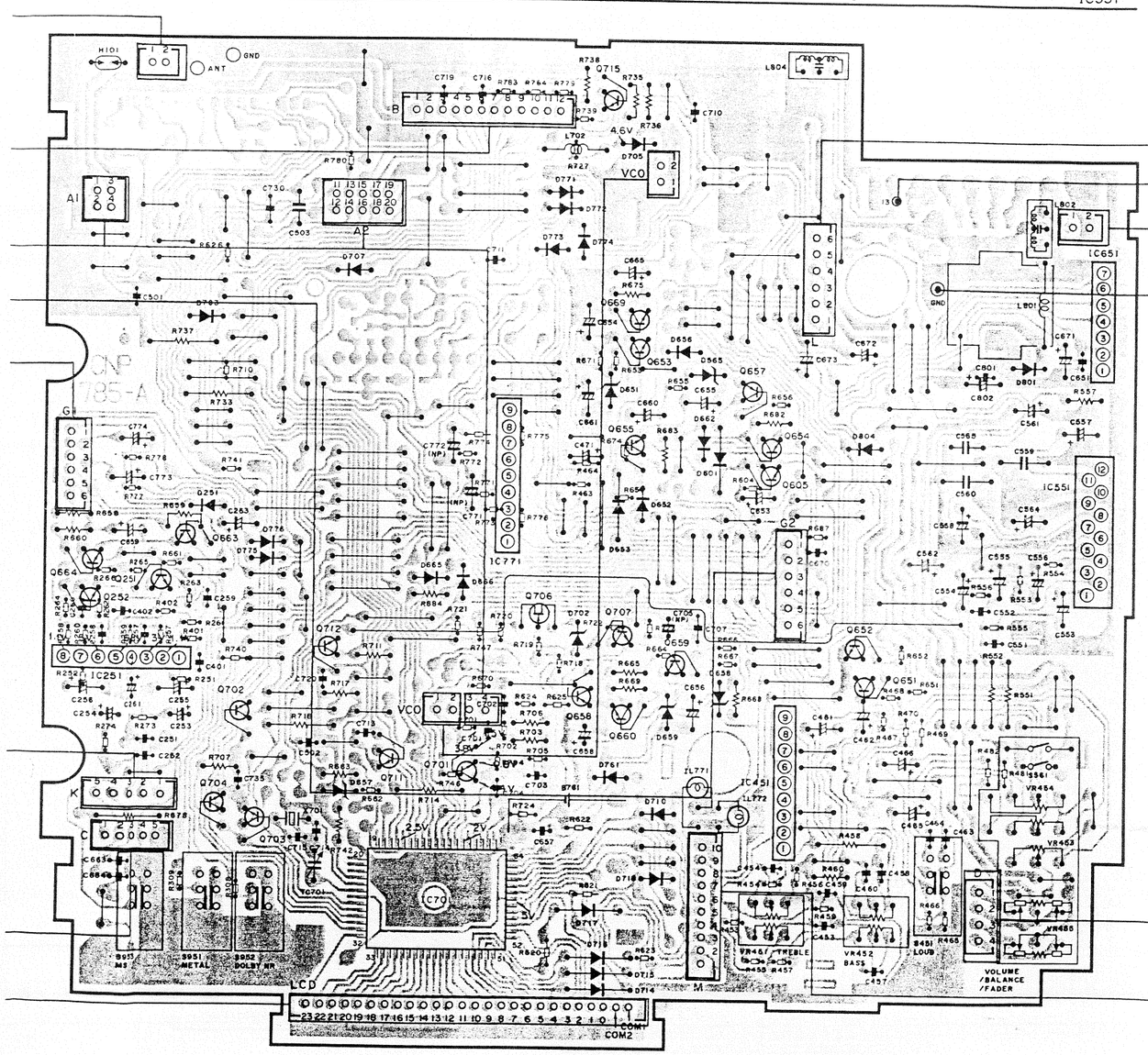
FRONT R UNIT





TUNER AMP UNIT

Q,IC | Q664 Q252 | Q251 IC251 | Q663 Q702 Q704 Q703 | Q712 Q711 | Q701 IC701 | IC771 Q706 | Q669 Q653 Q655 Q715 Q707 Q658 Q660 | Q659 | Q657 Q654 Q605 IC451 | Q652 Q651 | IC651 IC551

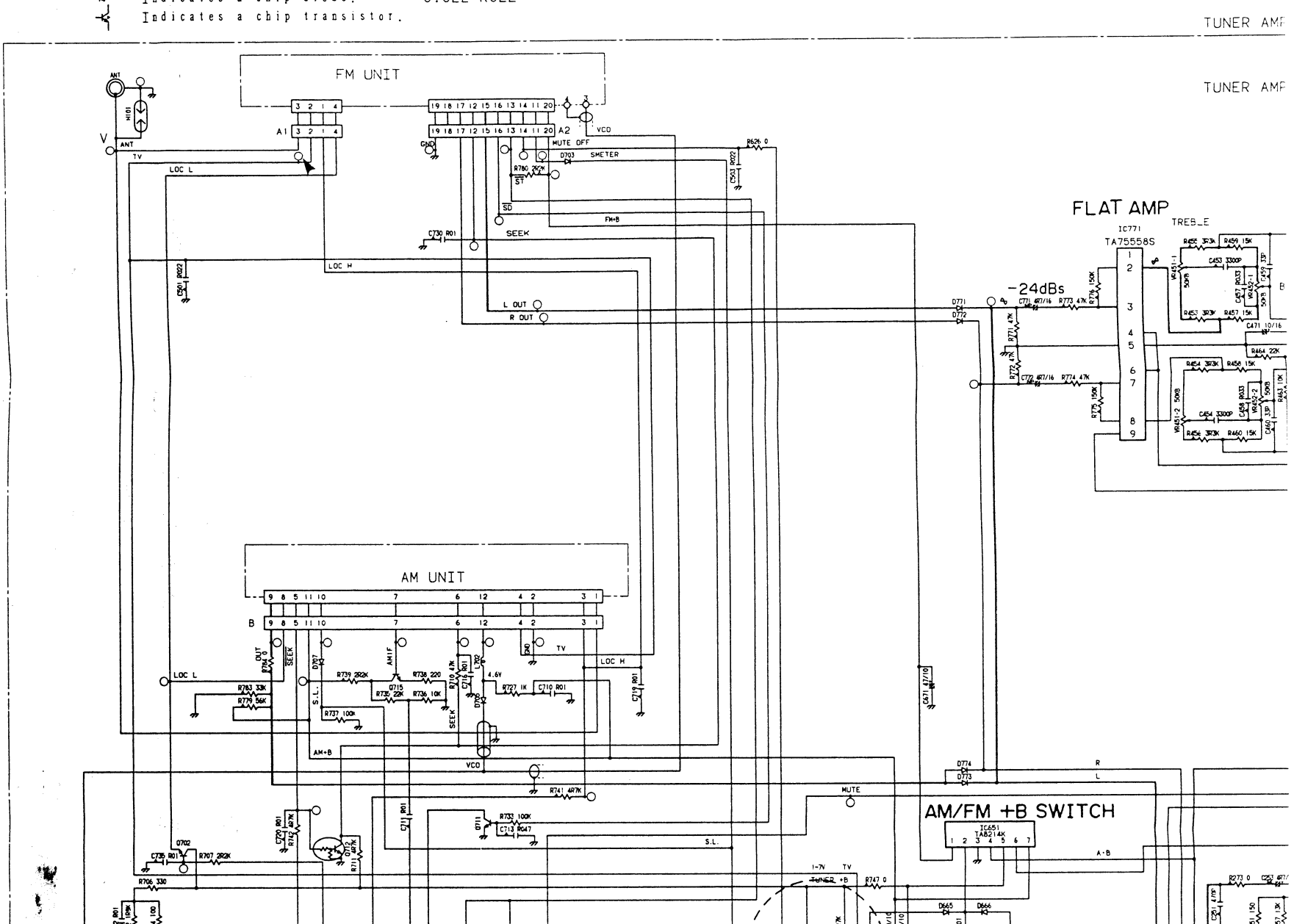

H101
ANT
GND
B
A1
A2
C730
C503
R626
D707
C501
D703
R737
R710
R733
C774
R778
R741
C773
R722
Q251
R659
R660
C859
Q663
D776
Q664
R661
R261
R260
Q252
R263
C259
C402
R402
R401
R740
C401
R252
IC251
R251
C258
C261
C255
C254
R274
R273
C253
C251
C262
R707
C735
Q704
R663
D857
R562
Q703
C702
R742
C665
C664
R678
K
C
W
G
CNP 85-A
S951 MS
S951 METAL
S952 DOLBY NR
LCD
COM1
COM2
C79
R738
Q715
R735
L804
C719
C716
R763
R764
R773
R739
R736
C710
4.6V
L702
D705
R727
VCO
D771
D772
D773
D724
C711
C665
R675
Q669
C654
R671
Q653
R655
D656
D965
Q657
R656
R682
C655
D651
C661
C660
D662
D801
Q654
C674
C471
R683
Q655
R464
R654
D652
R463
D653
R604
Q605
C653
C771
R775
R776
R772
R771
C772 (NP)
C770 (NP)
IC771
Q706
Q702
Q707
C705 (NP)
Q659
R687
R667
R658
C658
R668
D659
R665
R669
Q660
C656
R624
R625
R705
Q656
C658
R703
R704
R702
C701
C704
D761
ZL771
IC451
LL772
Q652
R652
Q651
R651
R668
C481
R470
R469
C482
R467
C466
R482
R481
R561
VR464
VR463
A458
R460
C458
C460
R454
R456
C459
R459
C453
R457
VR461 TREBLE
VR452 BASS
C457
R466
R465
B451 LOUD
VOLUME /BALANCE /FADER
L802
L803
L801
C672
C673
C671
C801
C802
D801
C561
R557
C657
C559
C568
C560
C562
C558
C564
C555
C556
R564
C554
R556
R553
C552
R555
C553
C551
R552
R551
IC651
IC551
GND
I3
R622
C657
D710
D718
D821
D717
D715
D714
R820
R623
C703
D761
R724
R714
R746
Q701
Q711
R717
R716
C713
R718
R719
R720
C720
R721
Q712
R711
R767
R770
R769
R766
Q706
Q702
Q707
D702
R728
R727
R726
C705
C707

12. SCHEMATIC CIRCUIT DIAGRAM (KE-3070QR)

NOTE:

Indicates a chip capacitor.
Indicates a chip resistor.
Indicates a chip diode.
Indicates a chip transistor.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022



TUNER AMP UNIT

Q654,657,658	2SA1048
Q251,252,655,659, 660,663,664,702,707	2SC2458
Q701	2SC2498
Q711,715	2SC3113
Q669,653	2SD1919
Q705,703,704,712	DTC144ES
Q651,652	2SD1468S
Q706	2SK330

D705	1SS135
D802	ERC05-10B
D702	HZS3R0EB2
D657	HZS5R1EB2
D659	HZS5R6JB2
D658	HZS7R5EB2
D651	HZS9R1EB1
D565	HZS10EB1
D761	MA700

D601,653,714~717	1S1555
OTHER DIODE	1SS133

FRONT L UNIT

IL901~903	CEL1004
S904~908,914,915,924~926 S934~936	CSG1021

FRONT R UNIT

D951,952	SLR-320DU3LM
IL951	CEL1004

TUNER AMP ASSY

TUNER AMP UNIT

VR451,452	CCS-401
VR453/454/455/S561	CCS1037
S451(OFF POSITION)	CSG-207

BASS TREBLE
IC451
TA75558S

FLAT AMP
IC771
TA75558S

TREBLE
BASS
VR453
BALANCE
VR454
VOLUME
FADER
MUTE
LOUDNESS
MAIN AMP
-20dBs
+17dBs
IC351
IA7280P
MUTE
OFF MUTE
AUDIO +B
TAPE MUTE
TUNER +B
DOLBY
NR
IC301
CXA1102P
MS DOLBY NR
UNIT
MS
IC401
PAQ011
-24dBs
IC251
M51522AL
METAL
EQ AMP
MUTE TAPE +B
-74dBs
P.C.BOARD UNIT
FRONT R UNIT
SWITCH P.C.BOARD
RL
FL
RR
FR

MS DOLBY NR UNIT

Q401,402	2SC2458
Q403	2SA1048
D401	HZS9R1EB2
VR301,302	VRTB6VS333

S951~953(OFF POSITION)
CSG-207

1	ACC	7	
2	GND FL	8	
3	RL	9	
4	FR	10	
5	RR	11	
6	GND	12	
13	AUTO ANT	20	
14		21	
15		22	
16		23	
17		24	
18		25	
19		26	

Fig

5 6 7 8 9

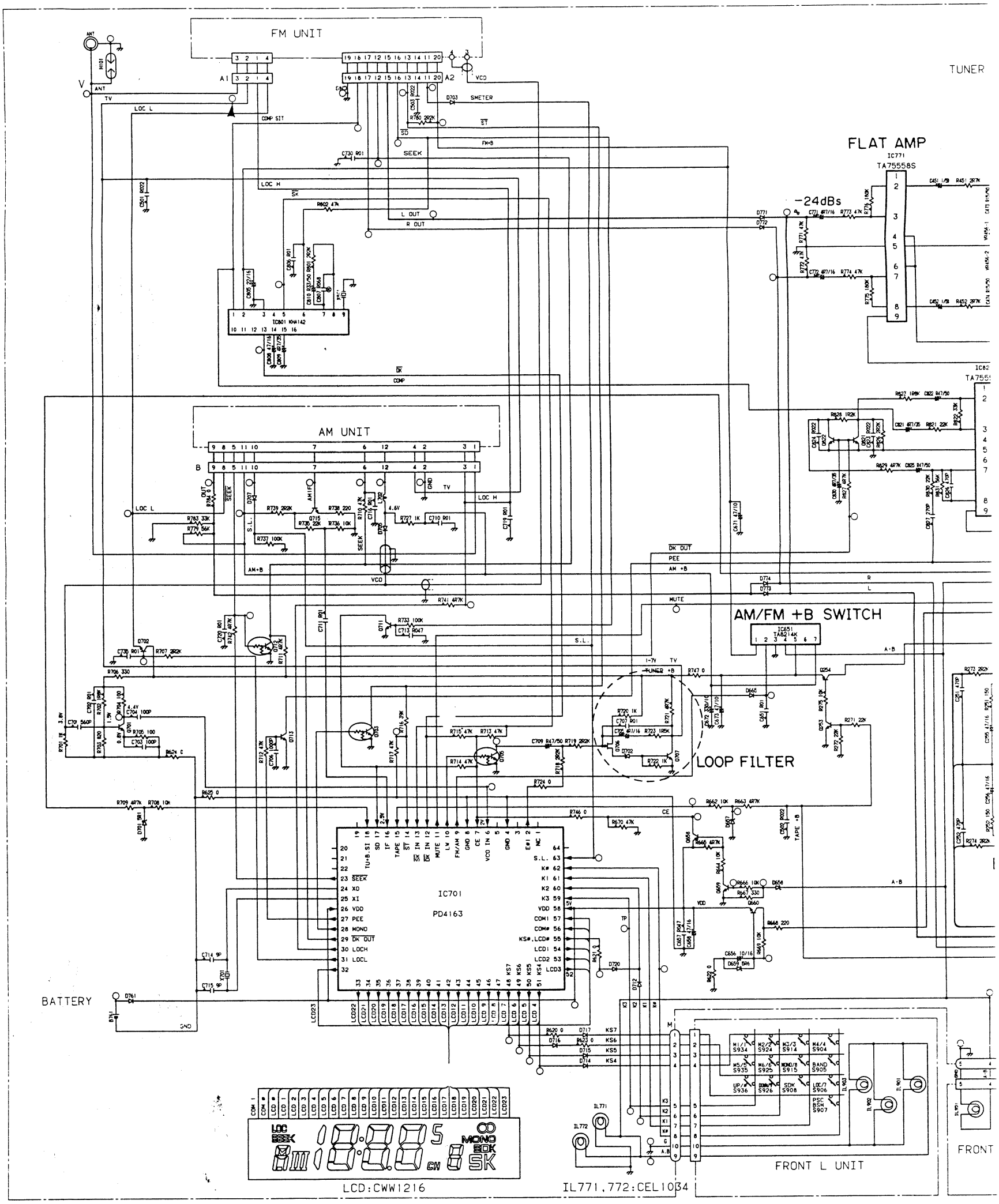
13. SCHEMATIC CIRCUIT DIAGRAM (KE-3060SDK)

NOTE:

Indicates a chip capacitor.
Indicates a chip resistor.
Indicates a chip diode.
Indicates a chip transistor.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022

TUNER



TUNER AMP UNIT

Q254,654,657,658	2SA1048
Q253,655,659,660,663, 664,702,707,713,821, 822,823	2SC2458
Q701	2SC2498
Q711,715	2SC3113
Q669,652	2SD1919
Q605,703,705,712	DTC144ES
Q651,652	2SD1468S
Q706	2SK330

D665	DTC314TS
D705	1SS135
D801	ERC05-10B
D761	MA700
D702	HZS3R0EB2
D657,701	HZS5R1EB2
D659	HZS5R6JB2
D658	HZS7R5EB2
D651	HZS9R1EB1
D565	HZS10EB1

D601,653,714~717	1SI555
OTHER DIODE	1SS133

FRONT L UNIT

IL901~903	CEL1004
S904~908,914,915,924~926 934~936	CSG1021

FRONT R UNIT

D951,952	SLR-320DU3LM
IL951	CEL1004

TUNER AMP ASSY

TUNER AMP UNIT

VR453	CCS-402
VR454/455/S56	CCS1109
VR456	CCS-374

FLAT AMP
IC771
TA75558S

MUTE

BALANCE

VOLUME

-20dBs

TONE

MAIN AMP
IC551
TA7280P

FADER

+17dBs

IC821
TA75558S

OFF MUTE

AUDIO +B

TAPE MUTE

B.V.

TUNER +B

SWITCH

IC251
M51522AL

-24dBs

FF MUTE

EQ AMP

TAPE+B

-74dBs

P.C.BOARD UNIT

FRONT R UNIT

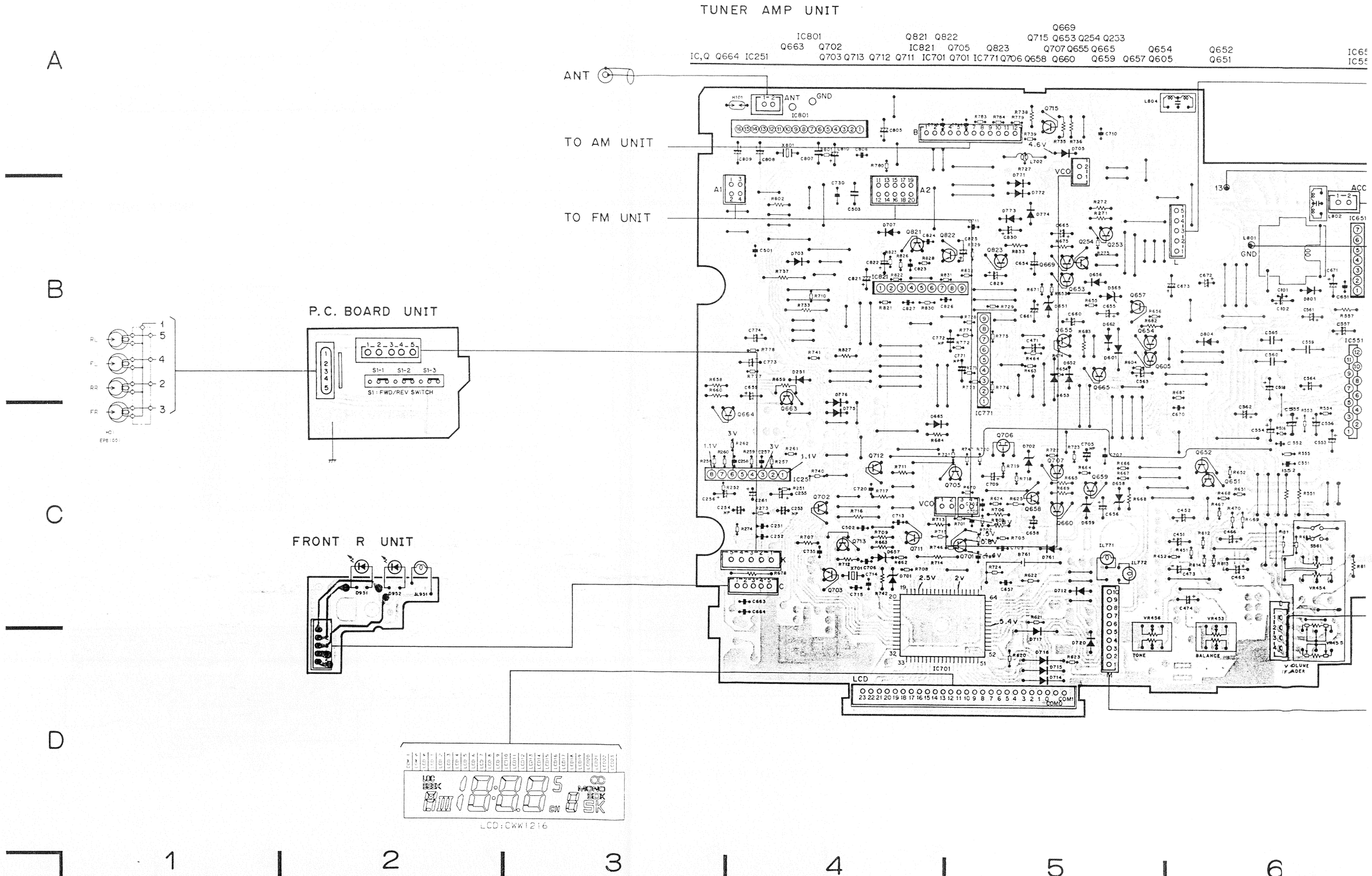
SWITCH P.C.BOARD

UNIT

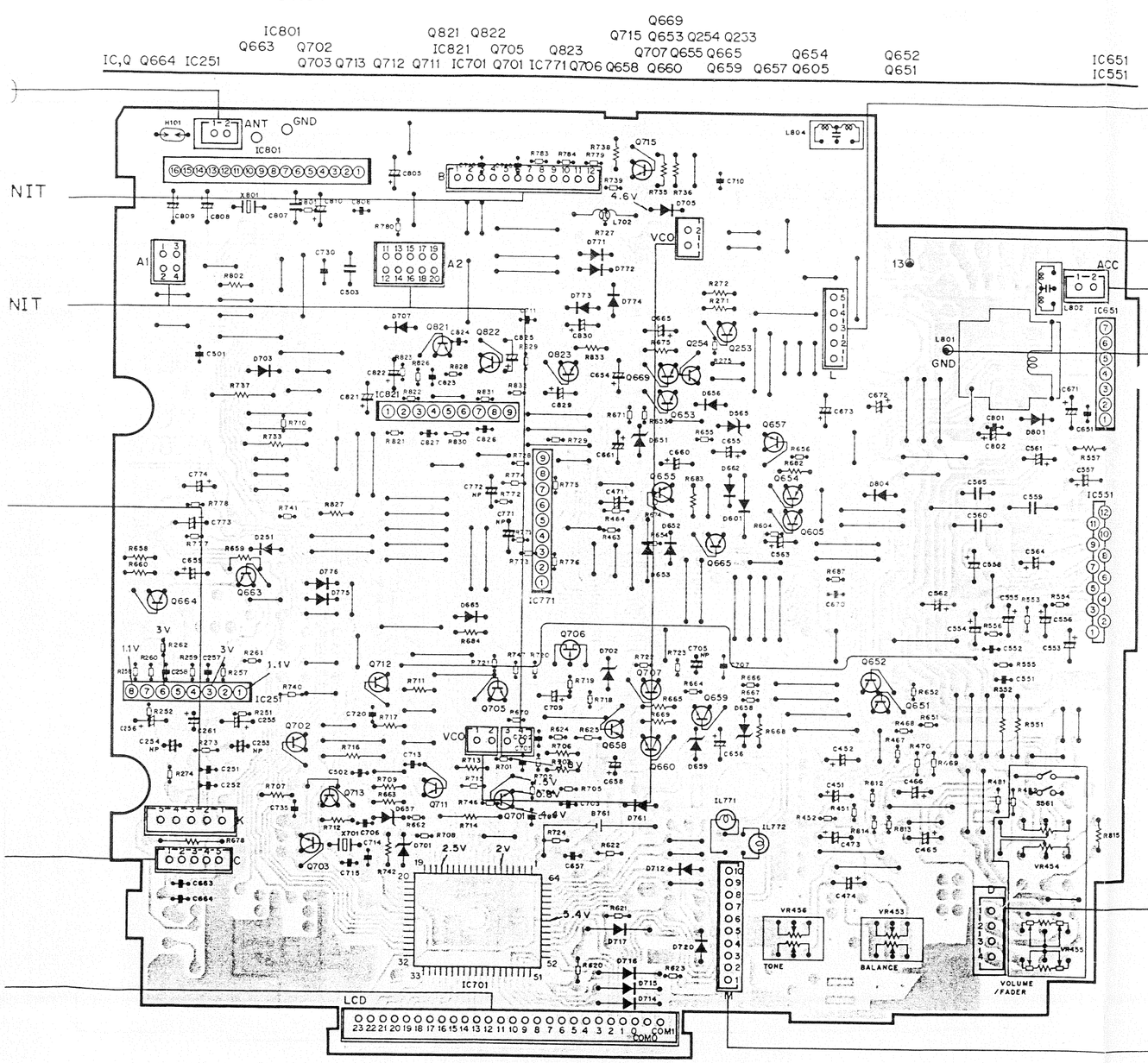
1	ACC		7
2	GND FL		8
3	RL		9
4		FR	0
5	RR		1
6		GNC	2
13	AUTO ANT		23
14			21
15			22
16			23
17			24
18			25
19			26

Fig. 15

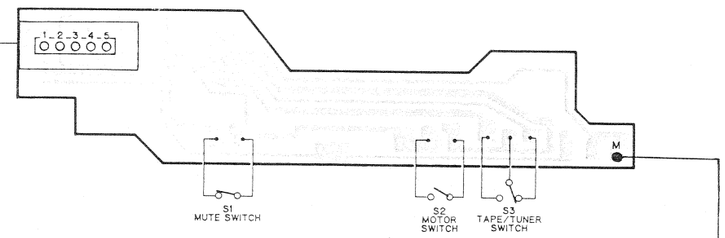
14. CONNECTION DIAGRAM (KE-3060SDK)



TUNER AMP UNIT



SWITCH P.C. BOARD



MOTOR UNIT

1	ACC	7
2	GND FL	8
3	RL	9
4	FR	10
5	RR	11
6	GND	12
13	AUTO ANT	20
14		21
15		22
16		23
17		24
18		25
19		26

FRONT L UNIT

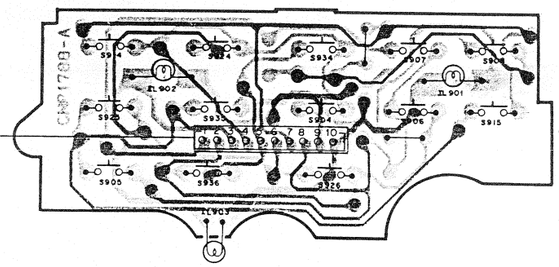


Fig. 16

15. CONNECTION DIAGRAM (KE-3060, 3060B)

TUNER AMP UNIT

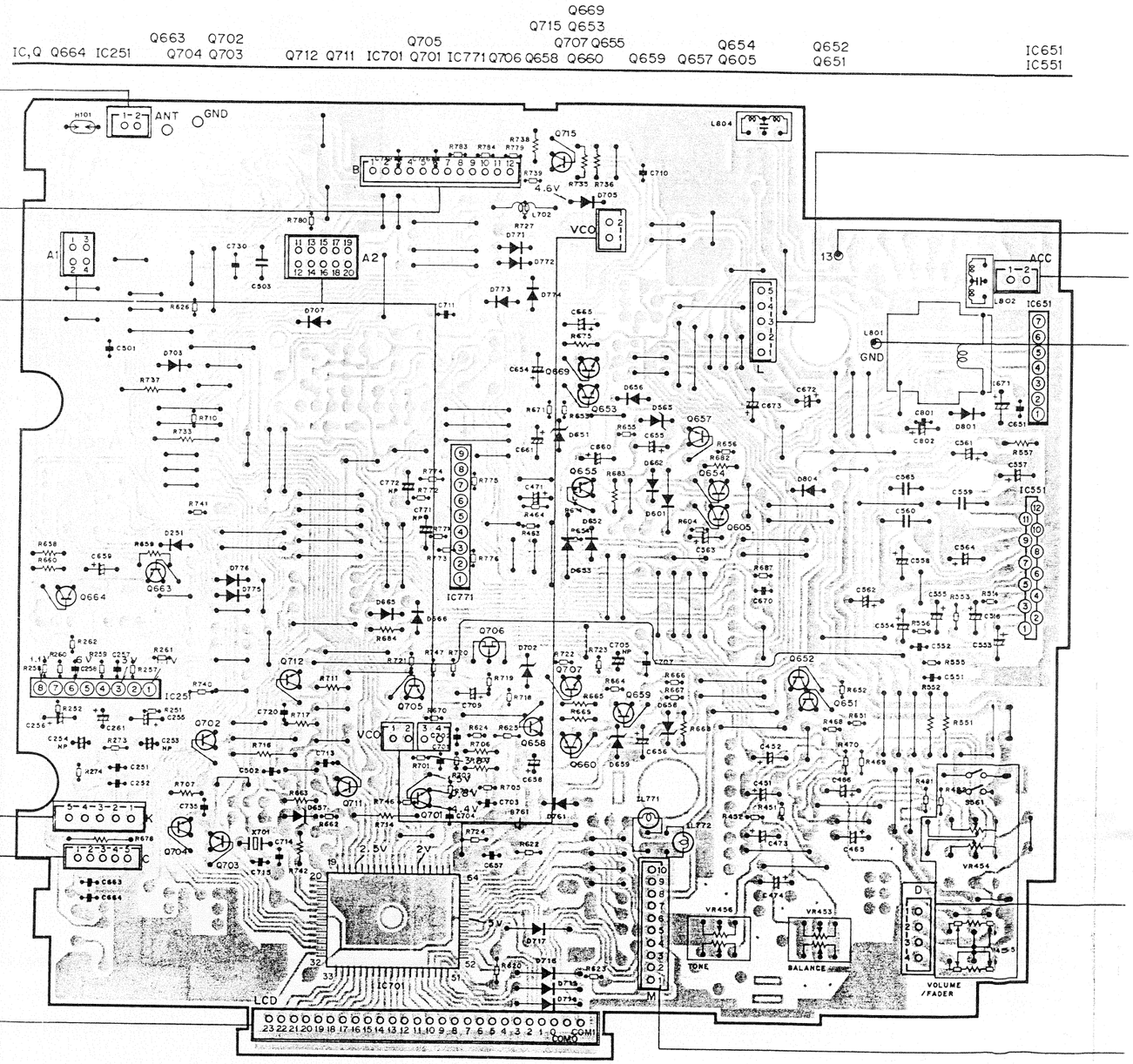
ANT

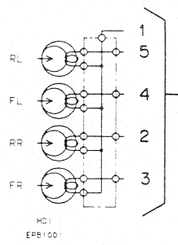
TO AM UNIT

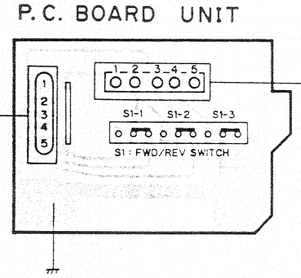
TO FM UNIT

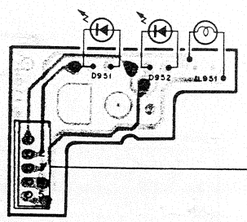
P.C. BOARD UNIT

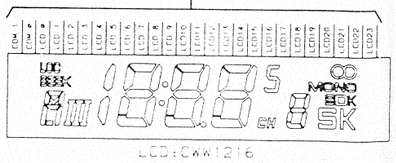
FRONT R UNIT



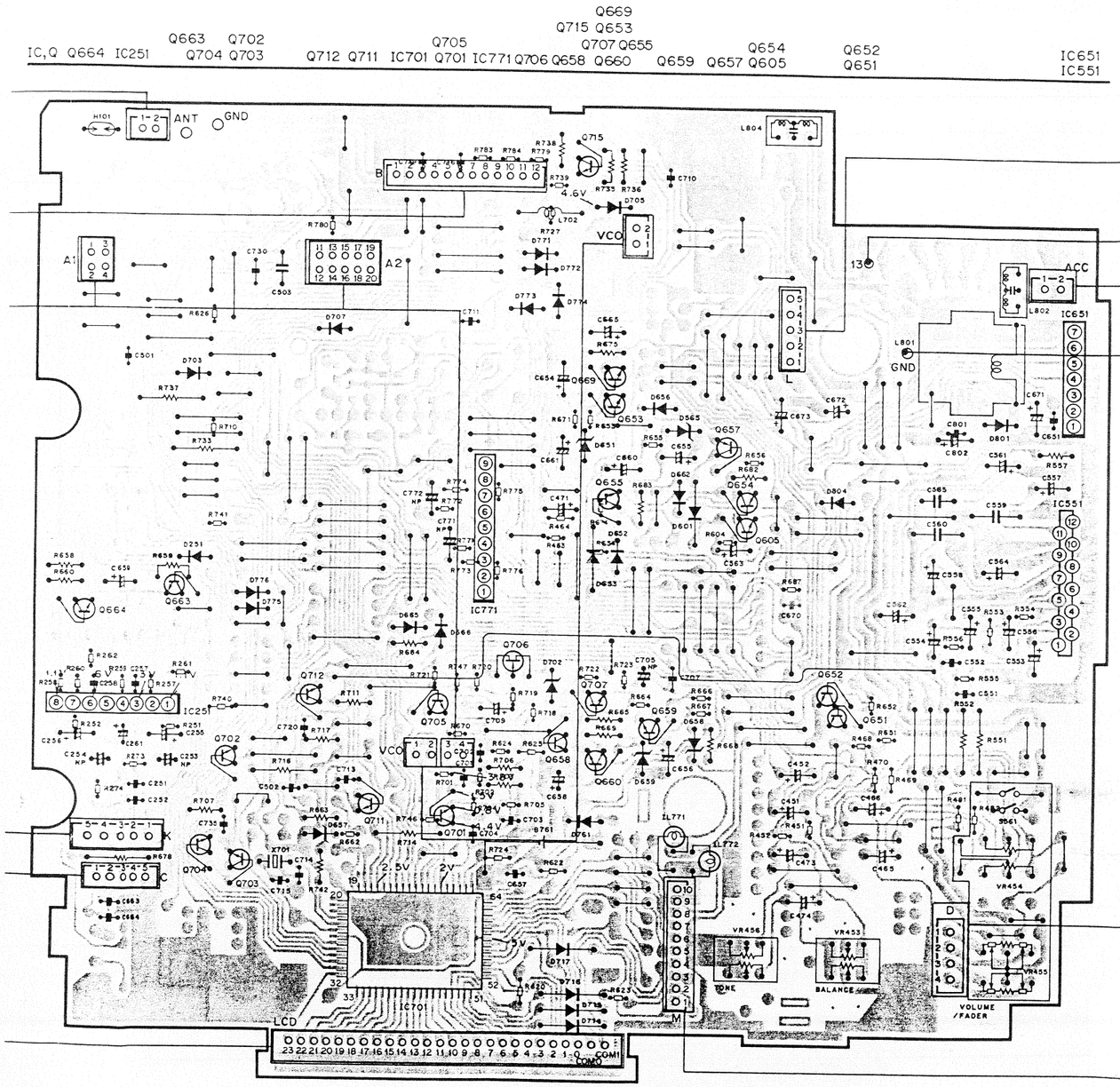




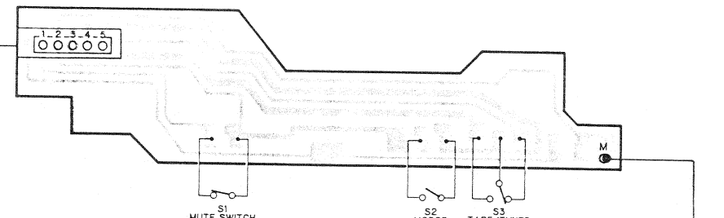




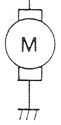
TUNER AMP UNIT



SWITCH P.C.BOARD



MOTOR UNIT



1	ACC	7
2	GND F-L	8
3	RL	9
4	FR	10
5	RR	11
6	GND	12
13	AUTO ANT	20
14		21
15		22
16		23
17		24
18		25
19		26

FRONT L UNIT

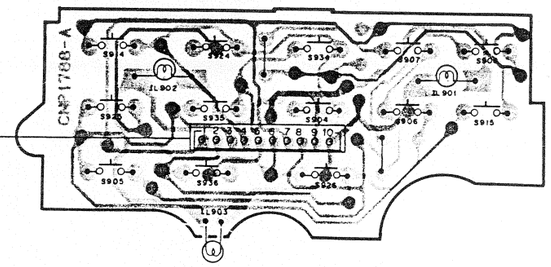


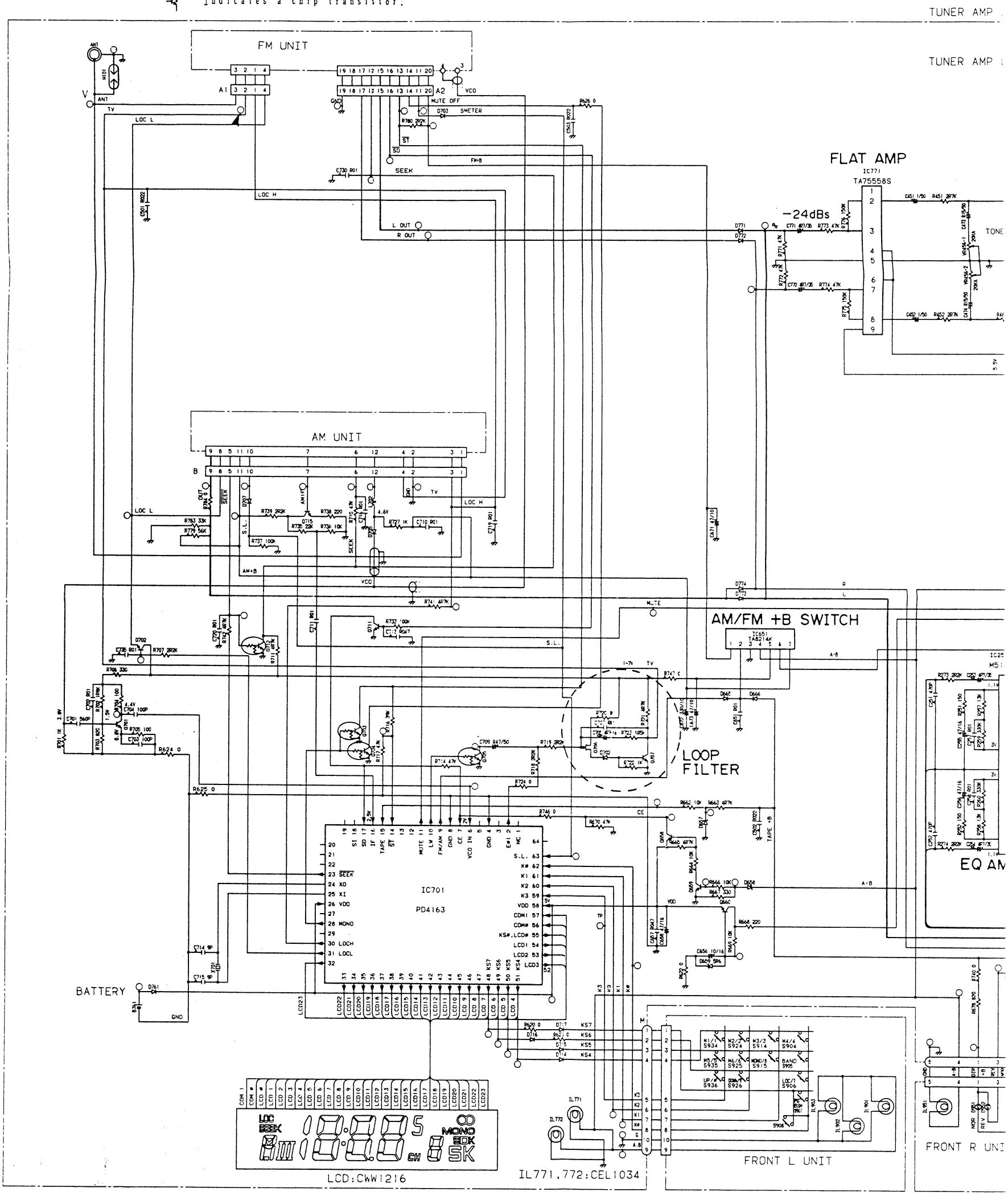
Fig. 17

16. SCHEMATIC CIRCUIT DIAGRAM (KE-3060, 3060B)

NOTE:

Indicates a chip capacitor.
Indicates a chip resister.
Indicates a chip diode.
Indicates a chip transistor.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022



TUNER AMP UNIT

Q654,657,658	2SA1048
Q655,659, Q60,663,664,702,707	2SC2458
[illegible]	2SD2498
[illegible]	3SG3113
Q669,670	2SD1919
Q671,703-705,711	DTC144ES
Q672,682	2SD1468S
Q706	2SK330

D705	1SS135
D801	ERC05-10B
D761	MA700
D702	[illegible]
D657	HZ5.6B2
D659	HZ5.6B2
D658	[illegible]
D651	HZ5.6B
D565	HZ5.6B

D601,653,714-717	1S1555
OTHER DIODE	1SS133

FRONT L UNIT

IL901~903	CEL1004
S904~908,914,915,924~926 934~936	CSG1021

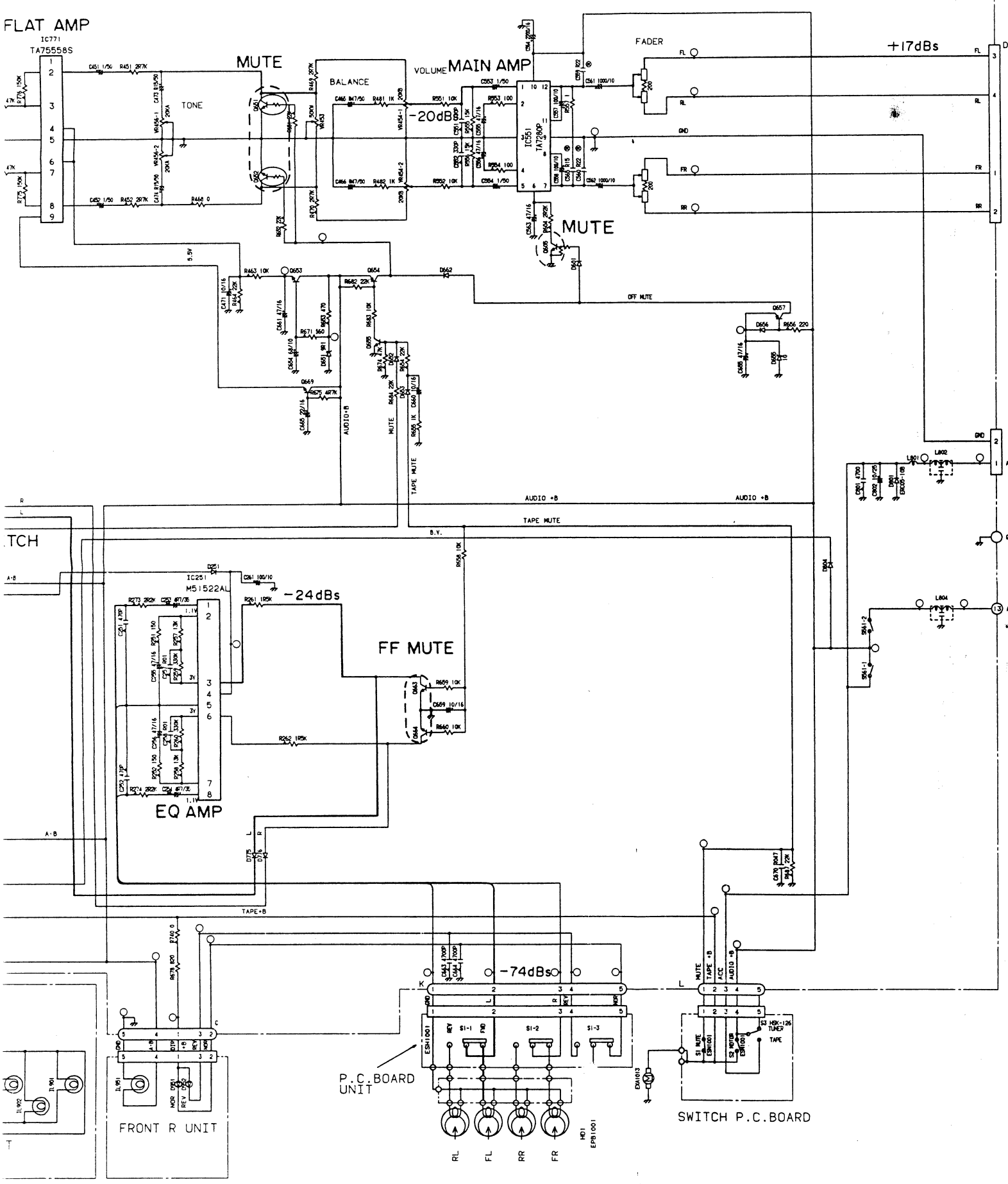
FRONT R UNIT

D951,952	[illegible]
IL95[illegible]	CEL1034

TUNER AMP ASSY

TUNER AMP UNIT

VR453	CCS-402
VR454/455/S561	CCS1109
VR456	CCS-374



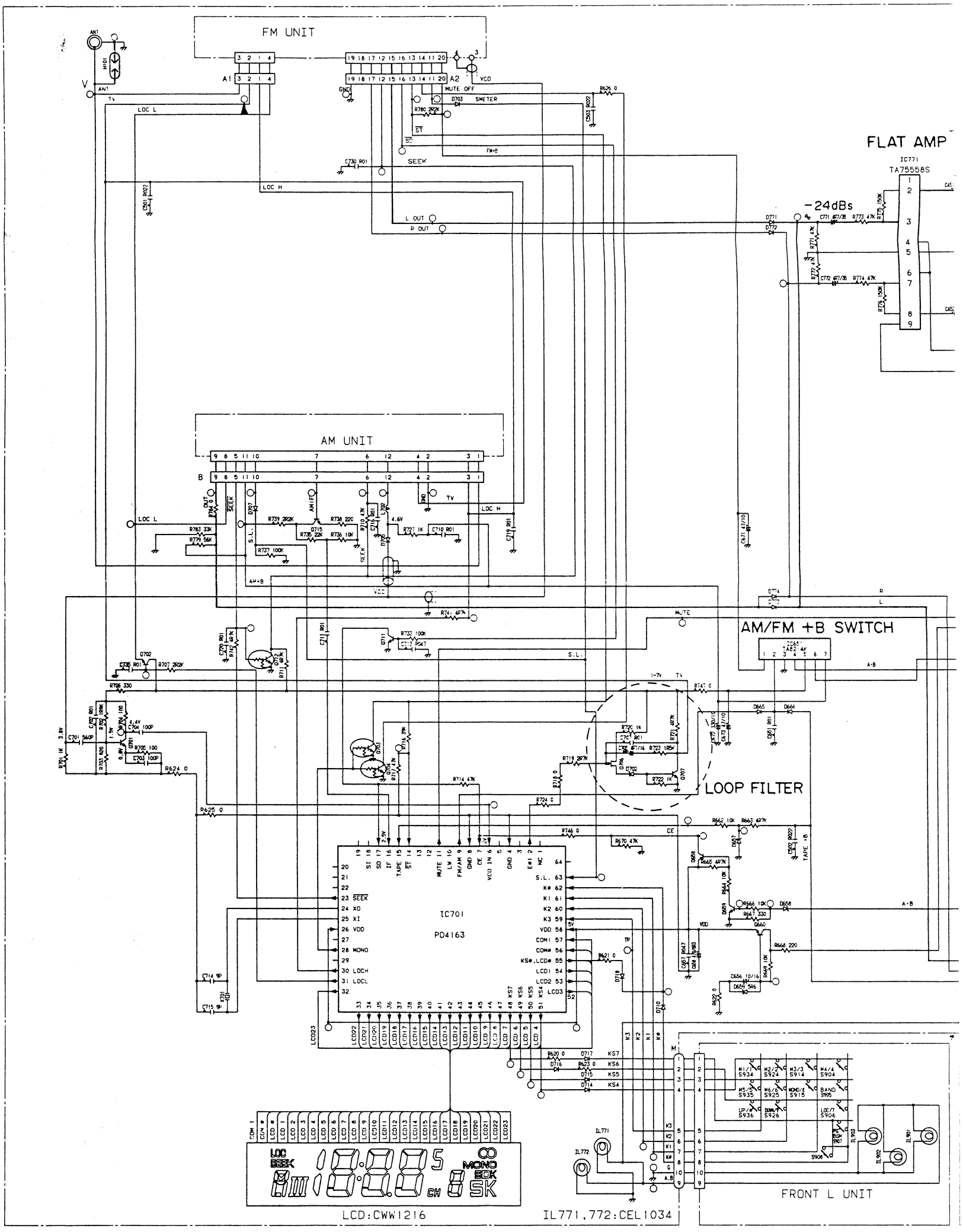
Fig

17. SCHEMATIC CIRCUIT DIAGRAM (KE-3040)

NOTE:

Indicates a chip capacitor.
Indicates a chip resistor.
Indicates a chip diode.
Indicates a chip transistor.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022



TUNER AMP UNIT

Q654,657,658	2SA1048
Q655,659, 660,663,664,702,707	2SC2458
Q701	2SD2498
Q711,715	2SC3113
Q669,683	2SD1919
Q635,703,704,712	DTC144ES
Q651,652	2SD1468S
Q706	2SK330

D705	1SS135
D801,802	ERC05-10B
D702	HZS3R0EB2
D657	HZS5R1EB2
D659	HZS5R6JB2
D656	HZS7R5EB2
D651	HZS9R1EB1
D565	HZS10EB1

D601,653,714~717	1S1555
OTHER DIODE	1SS133

FRONT L UNIT

IL901~903	CEL1004
S904~908,914,915,924~926 934~936	CSG1021

FRONT R UNIT

IR951,952	S_R-320DJ3_M
IL951	CEL1004

ues are

TUNER AMP ASSY

TUNER AMP UNIT

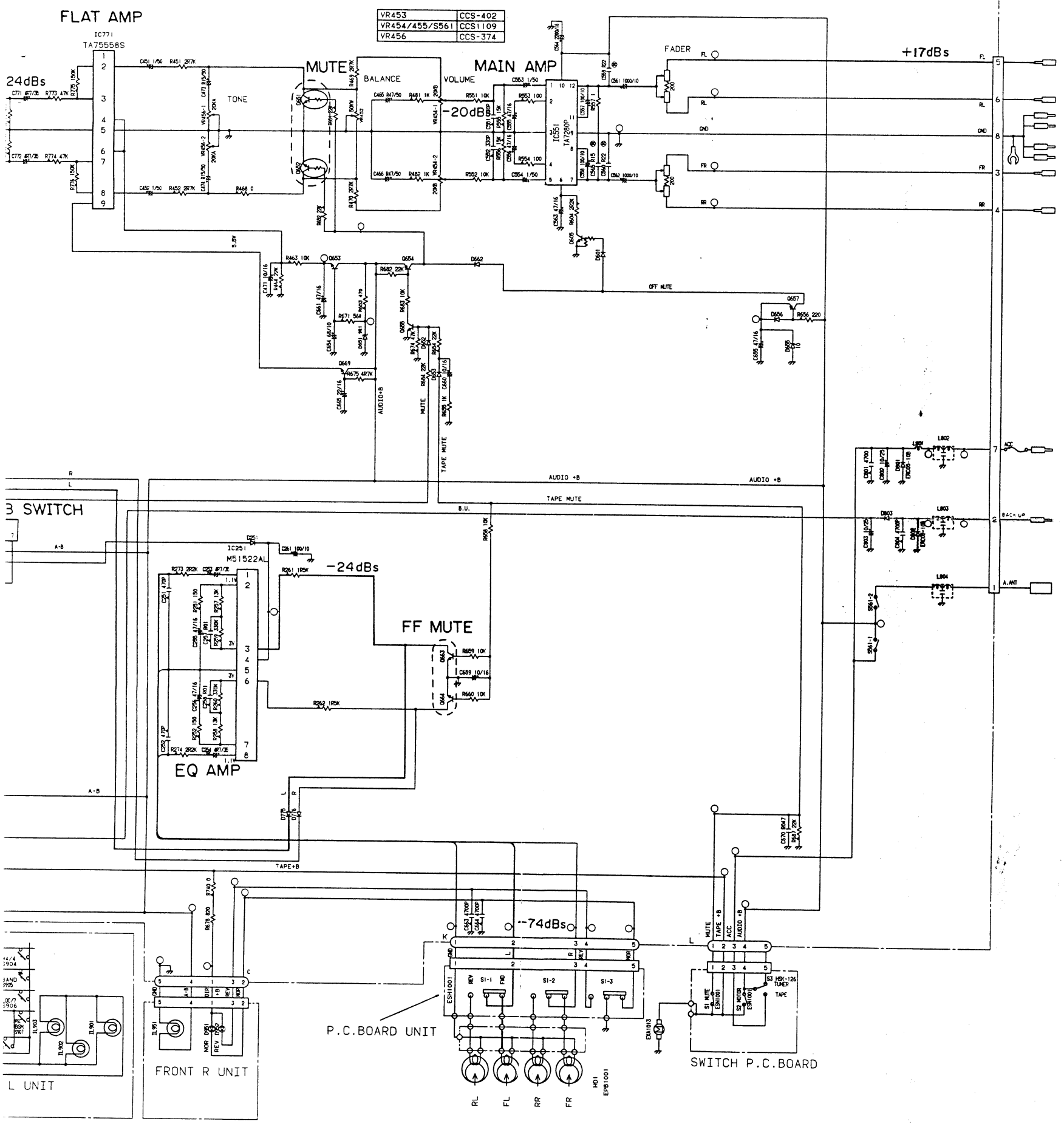


Fig. 19

18. CONNECTION DIAGRAM (KE-3040)

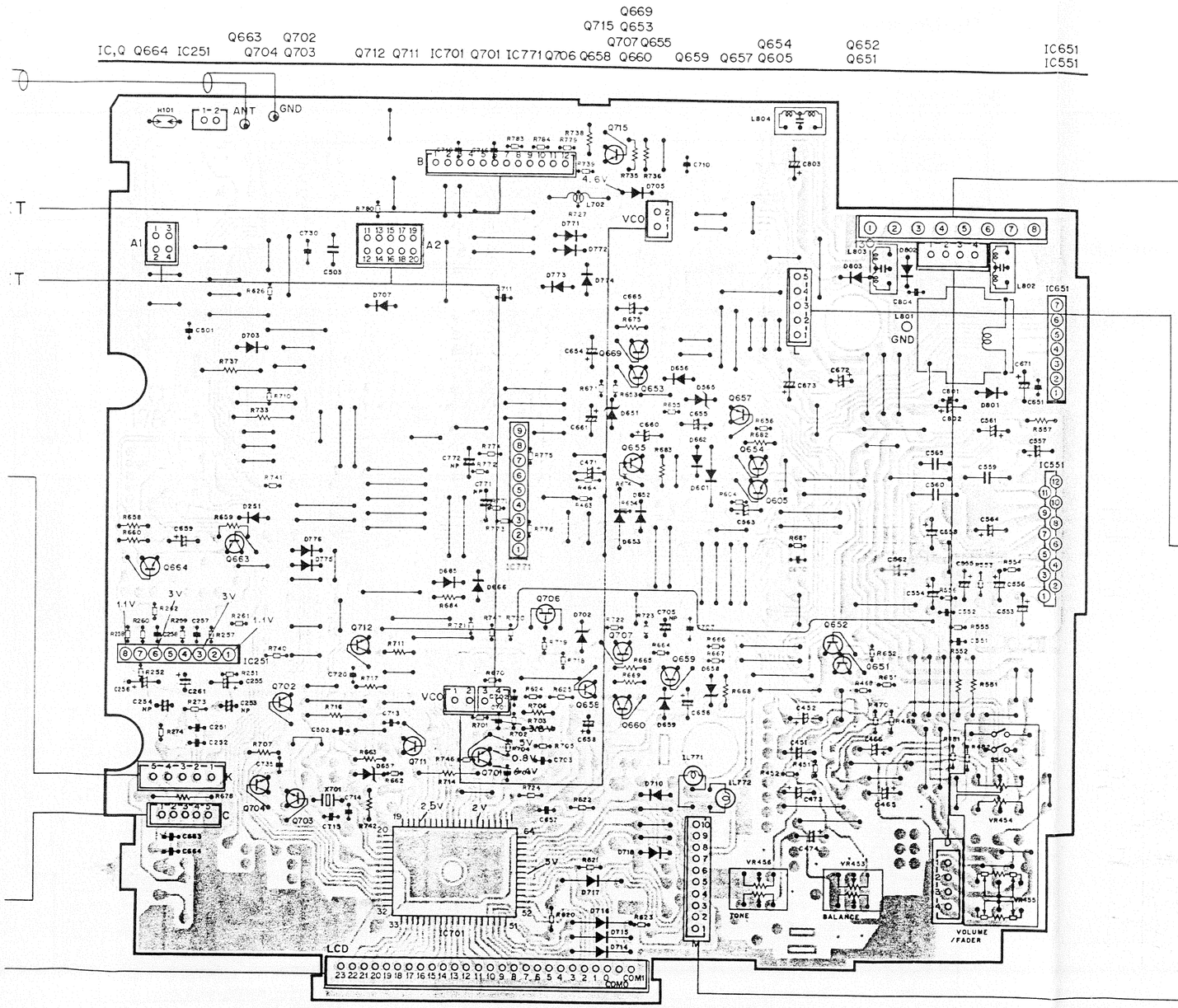
TUNER AMP UNIT

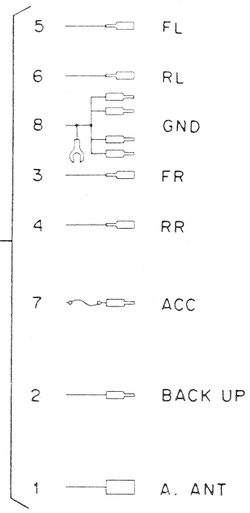
P.C. BOARD UNIT

FRONT R UNIT

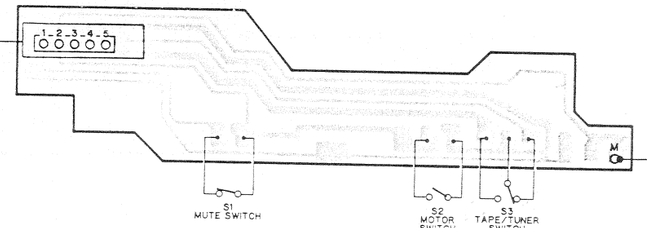
LCD : CWM1216

TUNER AMP UNIT





SWITCH P.C. BOARD



MOTOR UNIT

FRONT L UNIT

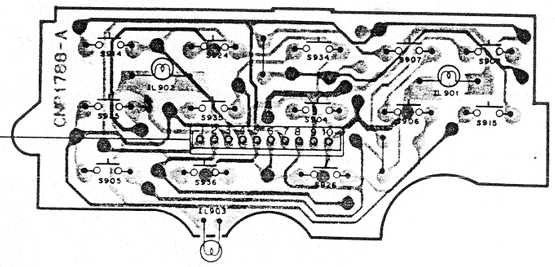


Fig. 20

19. CIRCUIT DIAGRAM AND P.C. BOARDS PATTERN

19.1 FM UNIT (KE-3090SDK, 3090, 3090B, 3060SDK, 3060, 3060B)

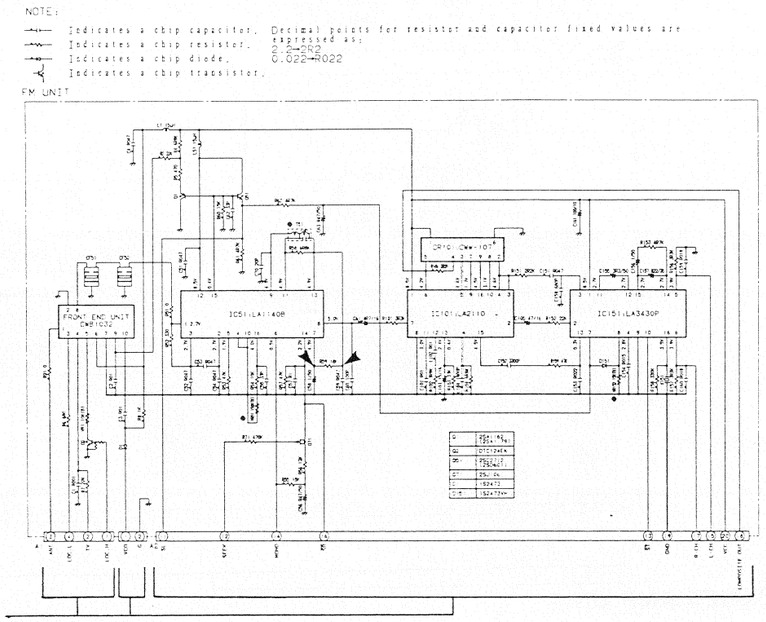

NOTE:
Indicates a chip capacitor. Decimal points for resistor and capacitor fixed values are expressed as;
Indicates a chip resistor. 2.2Ω→2R2
Indicates a chip diode. 0.022μF→R022
Indicates a chip transistor.
FM UNIT
TO TUNER AMP UNIT

Fig. 21

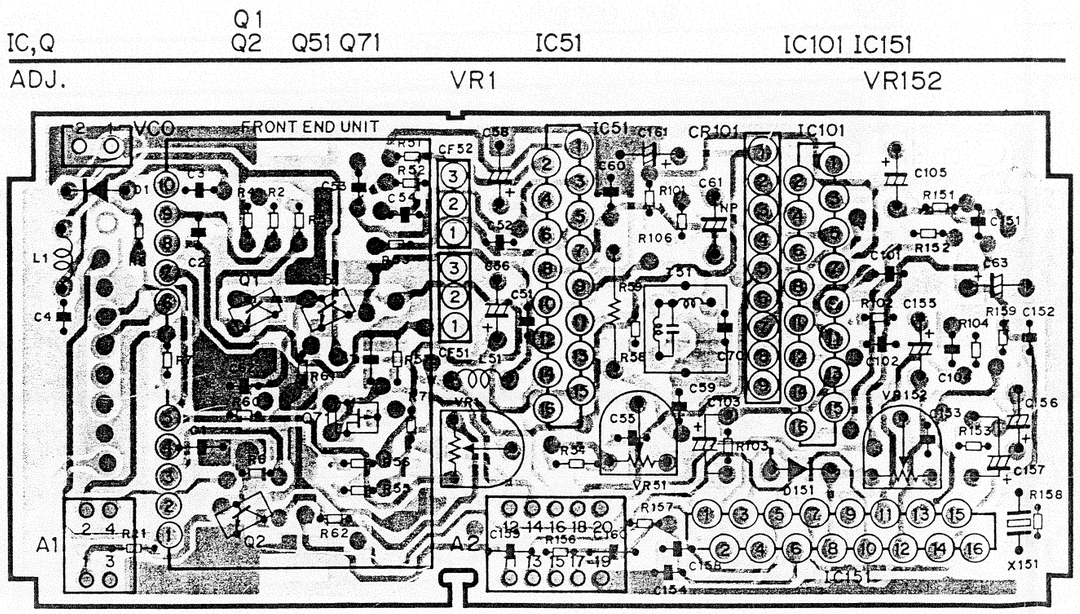


Fig. 22

19.2 FM UNIT (KE-3070QR)

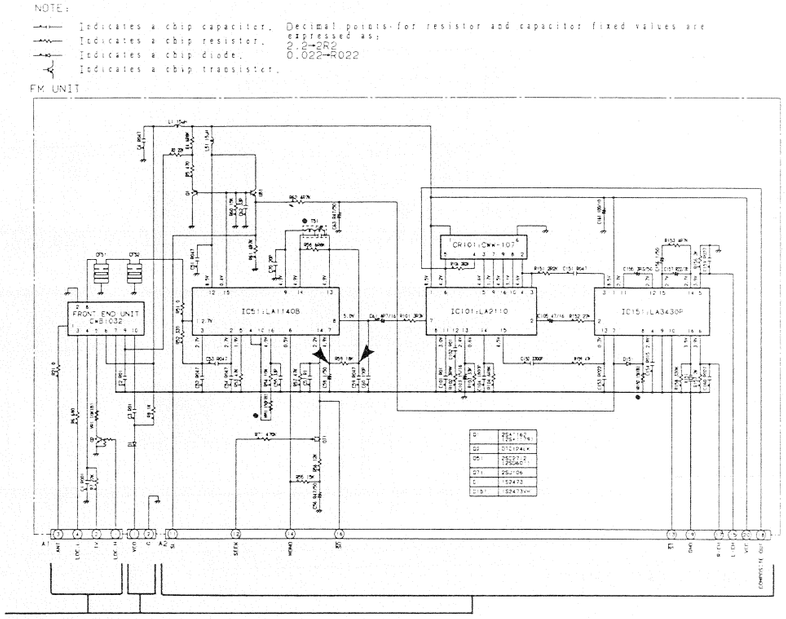

NOTE:
Indicates a chip capacitor. Decimal points for resistor and capacitor fixed values are expressed as;
Indicates a chip resistor. 2.2Ω→2R2
Indicates a chip diode. 0.022μF→R022
Indicates a chip transistor.
FM UNIT
TO TUNER AMP UNIT

Fig. 23

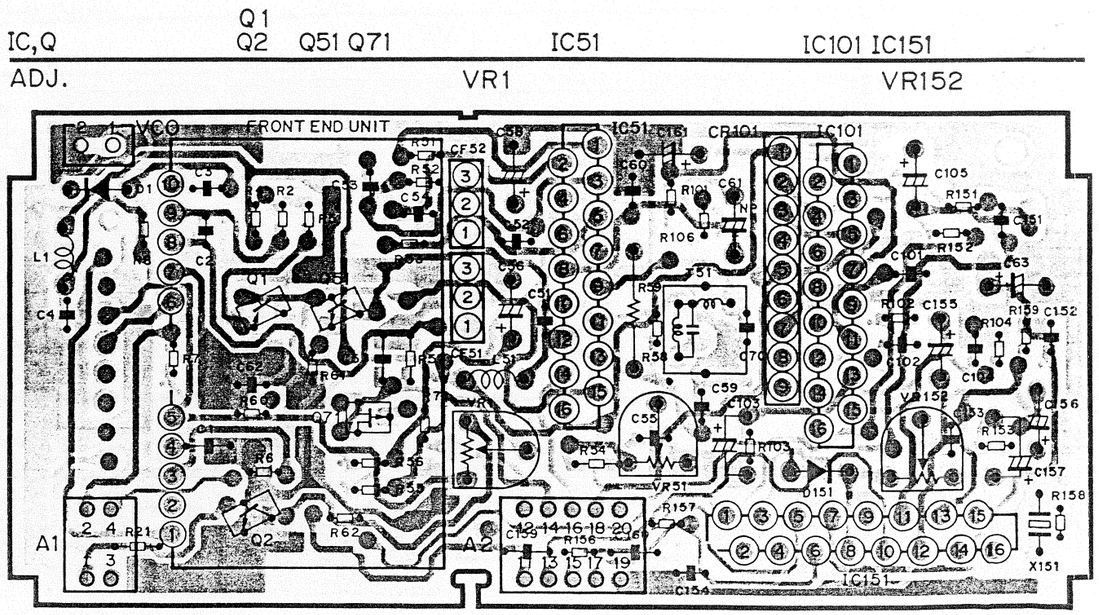


Fig. 24

19.2 FM UNIT (KE-3070QR)

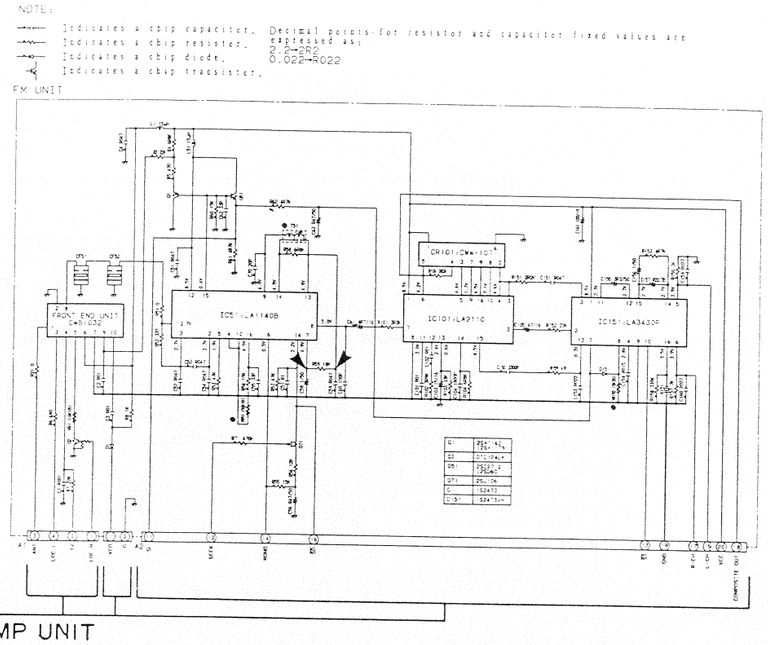


Fig. 21

Fig. 23

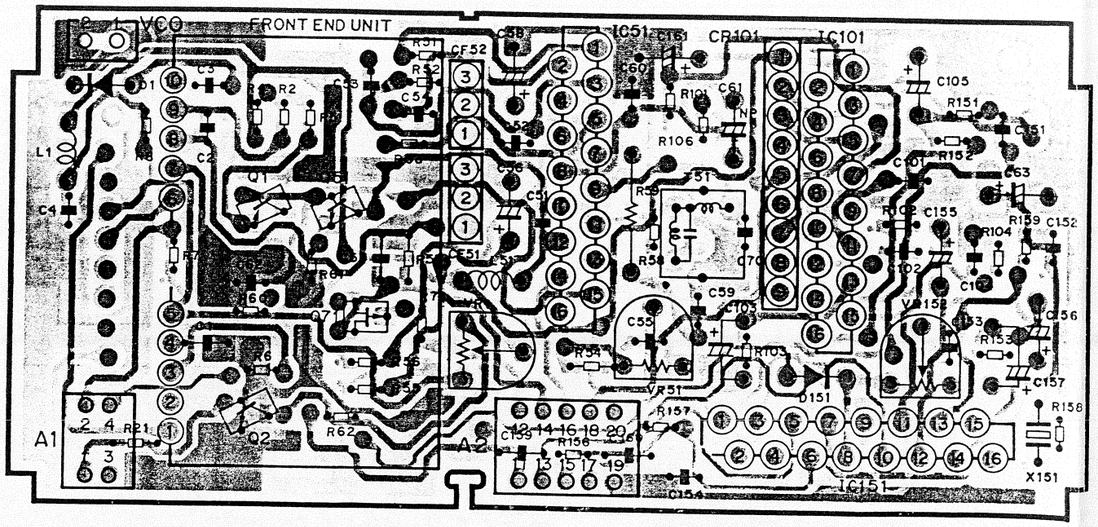


Fig. 24

19.3 FM UNIT (KE-3040)

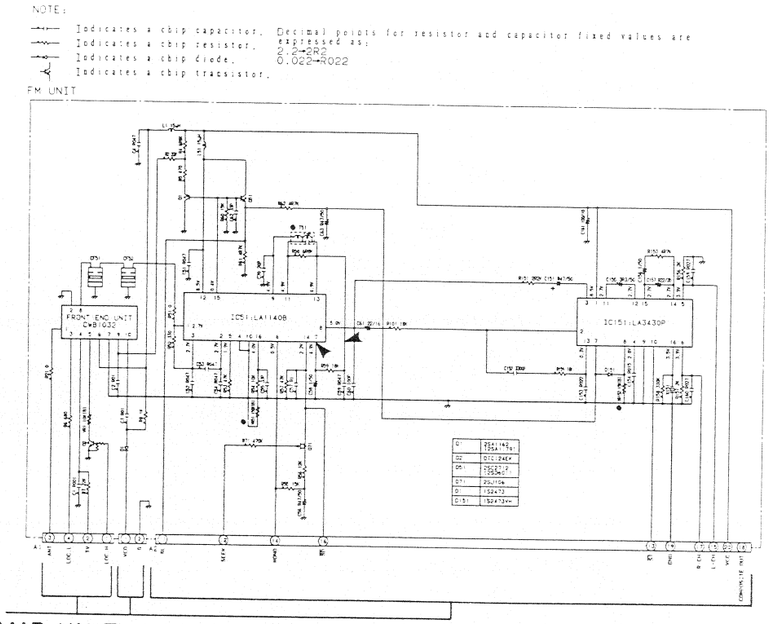


Fig. 25

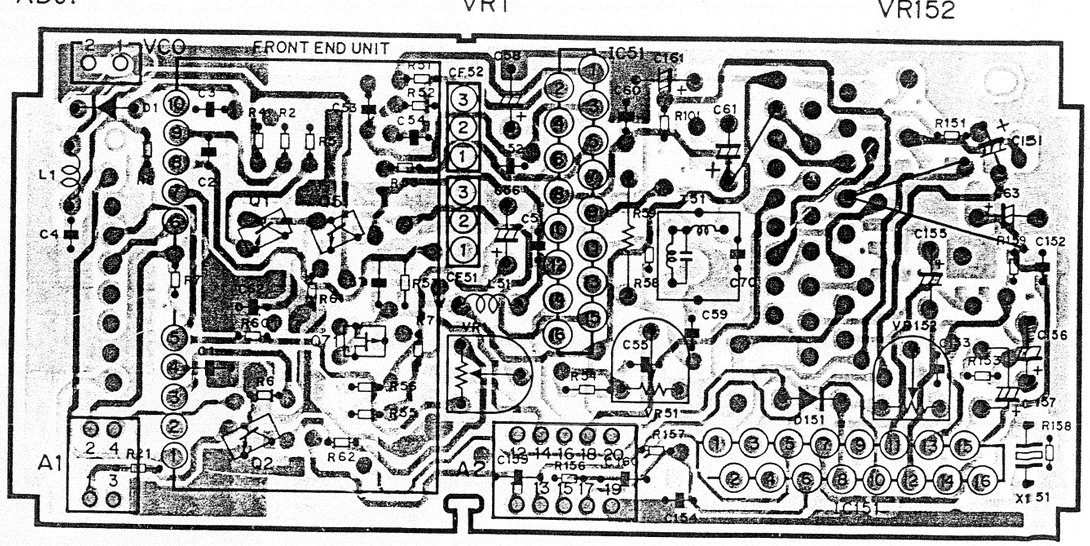
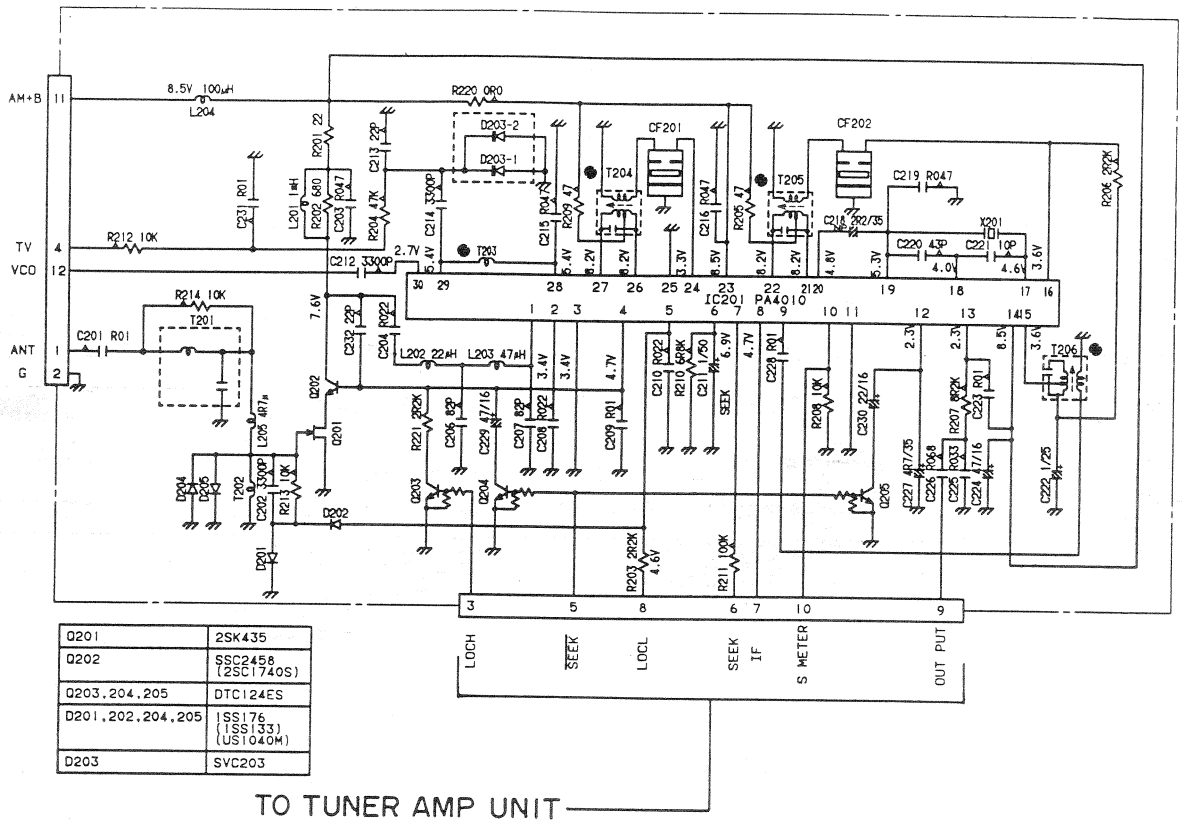


Fig. 26

19.4 AM UNIT



Q201	2SK435
Q202	SSC2458 (2SC1740S)
Q203,204,205	DTC124ES
D201,202,204,205	ISS176 (ISS133) (US1040M)
D203	SVC203

Fig. 27

IC, Q			IC201	Q205	Q202 Q204 Q203 Q201
ADJ	T204	T203	T206		
	T205				

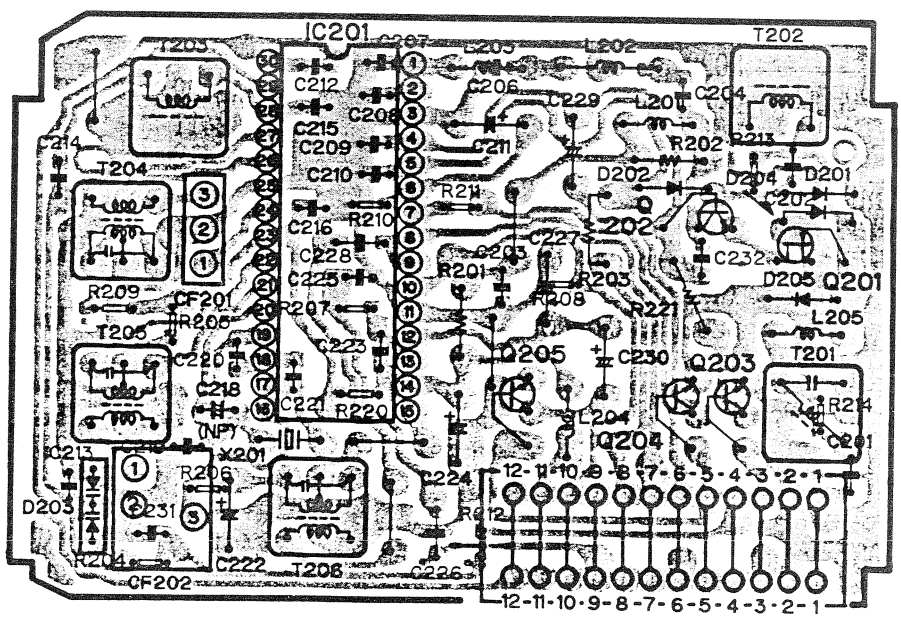


Fig. 28

20. EXPLODED VIEW

- **Parts List**

NOTE:

- *For your Parts Stock Control, the fast moving items are indicated with the marks ★★ and ★.*
  ★★: GENERALLY MOVES FASTER THAN ★.
  This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.
- *Parts whose parts numbers are omitted are subject to being not supplied.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

Mark	No.	Part No.	Description
	1		Spacer
★★	2	CEL1004	Lamp
	3	BPZ20P060FMC	Screw
	4		Plug
	5		Lens
	6	CNV-724	Bush
	7		Cushion
★	8	CAC1727	Button (KE-3090SDK, 3060SDK)
★	9	CAC1721	Button (1)
★	10	CAC1722	Button (2)
★	11	CAC1723	Button (3)
★	12	CAC1724	Button (4)
★	13	CAC1725	Button (5)
★	14	CAC1726	Button (6)
★	15	CAC1733	Button (TUNE)
★	16	CAC1734	Button (BAND)
★	17	CAC1713	Button (LOUD KE-3090SDK, 3090, 3090B, 3070QR)
	18	BMZ30P080FMC	Screw
	19		Holder
★★	20	TA8214K	IC
★★	21	TA7280P	IC
◉	22	CWM1672	MS Dolby NR Unit (KE-3090SDK, 3090, 3090B, 3070QR)
	23		Plug
	24		Plug
	25		Connector
	26		Connector (KE-3040)
★★	27	CCS1037	Volume (KE-3090SDK, 3090, 3090B, 3070QR)
★★		CCS1109	Volume (KE-3060SDK, 3060, 3060B, 3040)
★★	28	CCS-401	Volume (KE-3090SDK, 3090, 3090B, 3070QR)
★★		CCS-402	Volume (KE-3060SDK, 3060, 3060B, 3040)
	29		Clamper
	30		Holder
	31	CBN-016	Nut
	32	CBA-066	Nut
	33	CBH-875	Spring
	34	CAT1141	Door (KE-3090SDK)
		CAT1141 (CAT1158)	Door (KE-3090, 3090B)
		CAT1143	Door (KE-3070QR)
		CAT1142	Door (KE-3060SDK, 3060, 3060B)
		CAT1149	Door (KE-3040)
	35	CXA2407	Grille Unit (KE-3090SDK)
		CXA2408	Grille Unit (KE-3090, 3090B)
		CXA2409	Grille Unit (KE-3070QR)
		CXA2411	Grille Unit (KE-3060SDK)
		CXA2412	Grille Unit (KE-3060, 3060B)
		CXA2413	Grille Unit (KE-3040)
★	36	CAA1051	Knob (FAD)
★	37	CAA1050	Knob (VOLUME)
★	38	CAA1052	Knob
	39	CBH-727	Spring
★	40	CAC1716	Button (DIRECTION) (KE-3090SDK, 3090, 3090B, 3070QR)
★		CAC1717	Button (DIRECTION) (KE-3060SDK, 3060, 3060B, 3040)
	41		Case
	42		Insulator

• Exploded view

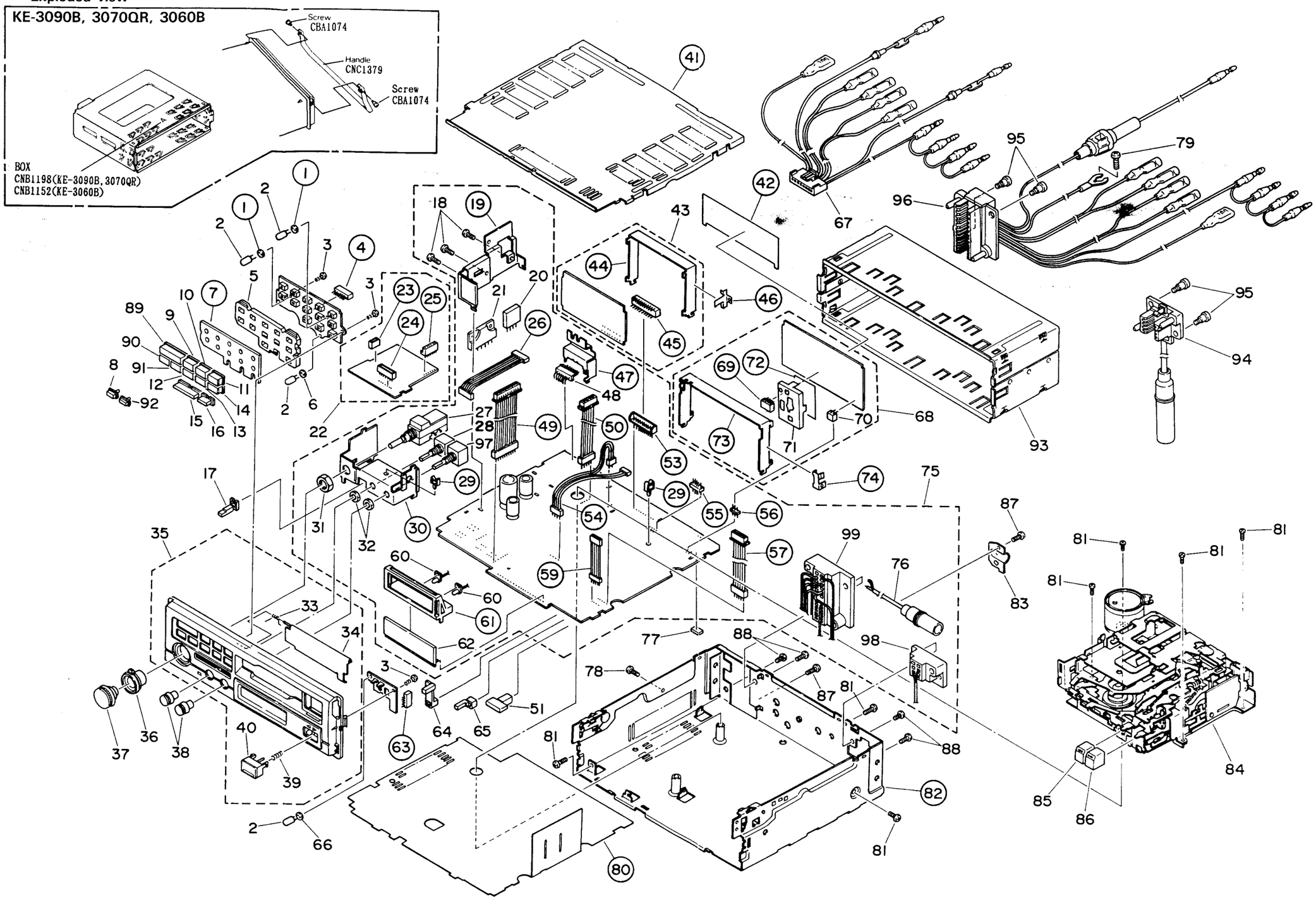


Fig. 29

Mark	No.	Part No.	Description
◉	43	CWA1009	AM Unit
	44		Holder
	45		Connector
	46		Spacer
	47		Holder(KE-3040)
	48	CKS-465	Plug(KE-3040)
	49		Connector
	50		Connector(KE-3090SDK, 3090,3090B,3070QR)
			Connector(KE-3060SDK, 3060,3060B,3040)
★	51	CAC1718	Button(KE-3090SDK, 3090,3090B,3070QR)
	52	.....	
	53		Plug
	54		Connector
	55		Plug
	56		Plug
	57		Connector
	58	.....	
	59		Connector
★★	60	CEL1034	Lamp
	61		Holder
	62	CWW1216	LCD
	63		Plug
★	64	CAC1719	Button(NR)
★	65	CAC1720	Button(MTL)
	66	CNW-855	Bush
	67	CDE2114	Cord Assy(KE-3040)
◉	68	CWE1103	FM Unit(KE-3090SDK, 3090,3090B,3060SDK, 3060,3060B)
◉		CWE1107	FM Unit(KE-3070QR)
◉		CWE1115	FM Unit(KE-3040)
	69		Connector
	70		Connector
	71	CWB1032	Front End Unit
	72		Insulator
	73		Holder
	74		Spacer
◉	75	CWM1616	Tuner Amp Unit (KE-3090SDK)
◉		CWM1617	Tuner Amp Unit (KE-3090,3090B)
◉		CWM1620	Tuner Amp Unit (KE-3070QR)
◉		CWM1622	Tuner Amp Unit (KE-3060SDK)
◉		CWM1624	Tuner Amp Unit (KE-3060,3060B)
◉		CWM1626	Tuner Amp Unit (KE-3040)
	76	CDH1066	Antenna Cable(KE-3040)
	77	CNN-412	Cushion
	78	BMZ30P060FMC	Screw
	79	BMZ40P060FMC	Screw(KE-3090B,3070QR, 3060B)
	80		Insulator
	81	BMZ26P040FMC	Screw
	82		Chassis Unit
	83	CNF-387	Holder(KE-3040)
◉	84	EXK1020	Cassette Mechanism Unit (KE-3090SDK,3090,3090B, 3070QR)
◉		EXK1140	Cassette Mechanism Unit (KE-3060SDK,3060,3060B 3040)
★	85	CAC1715	Button
★	86	CAC1714	Button
	87	BMZ30P060FMC	Screw(KE-3040)
	88	BMZ30P060FMC	Screw(KE-3090SDK,3090, 3090B,3070QR,3060SDK, 3060,3060B)
★	89	CAC1731	Button(KE-3090,3090B, 3070QR,3060,3060B,3040)
★	90	CAC1729	Button(MONO)
★	91	CAC1730	Button(LOC,S)
★	92	CAC1728	Button(KE-3090SDK, 3060SDK)
	93	CNC1484	Holder(KE-3090SDK,3090, 3060SDK,3060,3040)
	94	CDE1456	Cord Assy(KE-3090SDK, 3090,3090B,3070QR, 3060SDK,3060,3060B)
	95	CBA1073	Screw(KE-3090B,3070QR, 3060B)
	96	CDE2053	Cord Assy(KE-3090SDK, 3090,3090B,3070QR, 3060SDK,3060,3060B)
★★	97	CCS-401	Volume(KE-3090SDK,3090, 3090B,3070QR)
★★		CCS-374	Volume(KE-3060SDK,3060, 3060B,3040)
	98	CDE2072	Cord Assy(KE-3090SDK, 3090,3090B,3070QR, 3060SDK,3060,3060B)
	99	CDE2052	Cord Assy(KE-3090SDK, 3090,3090B,3070QR, 3060SDK,3060,3060B)

- **Cassette Mechanism Unit**

Mark	No.	Part No.	Description
	92	*	
	93	ENV1043	Gear
	94	ELA1032	Collar
	95	HBA-212	Screw
	96	EBH1007	Spring
	97	EBH1006	Spring
	98	EBH1058	Spring
	99	EBF1005	Washer
	100		Arm Unit
	101	ENV1018	Gear
	102	ENV1017	Gear
	103	EBH1022	Spring
	104	EXA1005	Arm Unit
	105		Plug
	106	EBA1010	Screw
	107	BMZ20P070FMC	Screw
	108		Bracket
	109	EBH1016	Spring
	110		Lever Unit
	111	EBH1048	Spring
	112	EBH1005	Spring
	113		Lever
	114		Lever
	115		Arm
	116	WH23FMC	Washer

*) Number 92 is part of the chassis unit and cannot be removed.

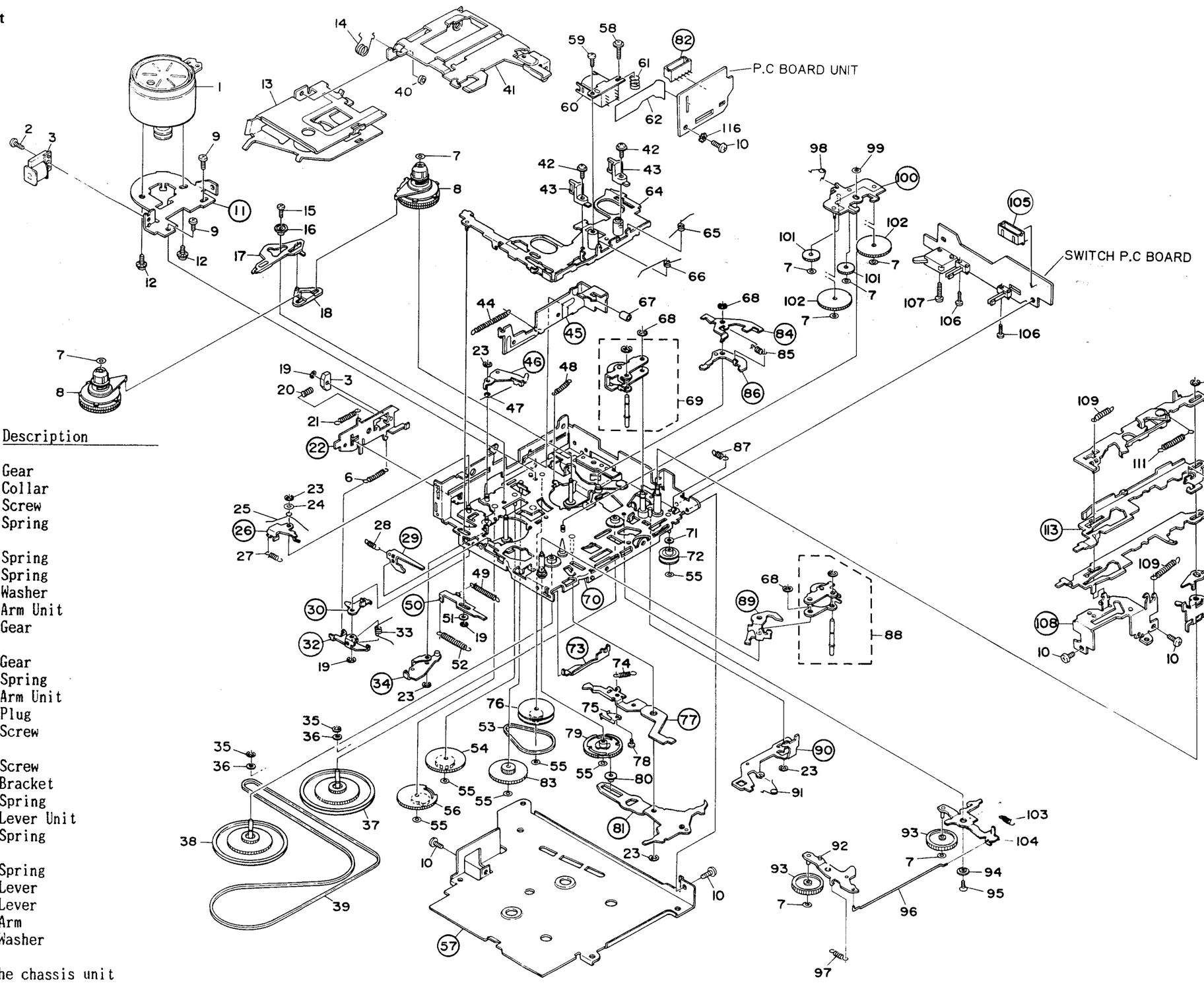


Fig. 30

21. CASSETTE MECHANISM UNIT

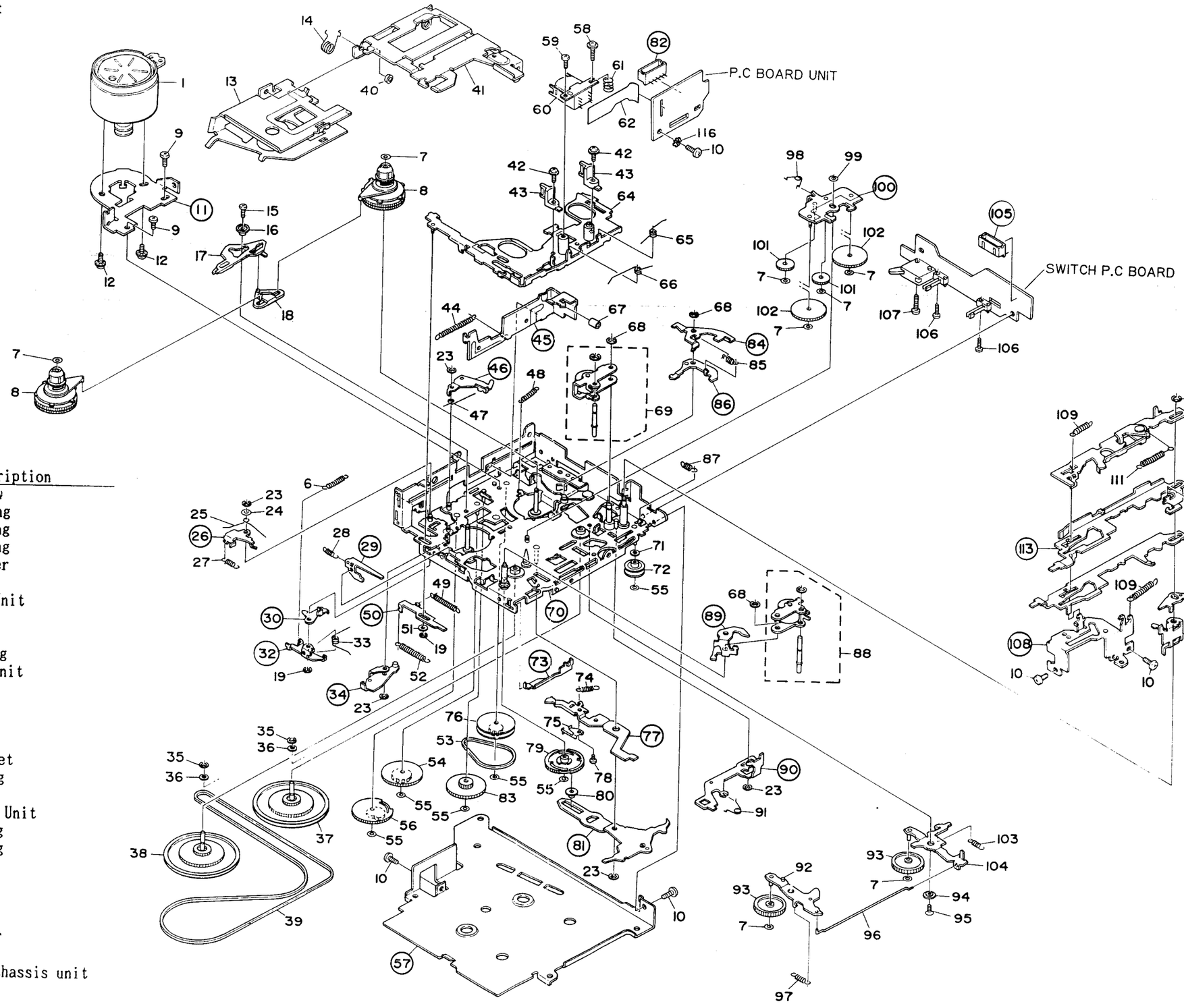
(KE-3090SDK, 3090, 3090B, 3070QR)

• Parts List

Mark	No.	Part No.	Description
★★	1	EXA1013	Motor Unit
	2	EBA1008	Screw
★	3	EXP1001	Solenoid
	4,5	·····	
	6	EBH1056	Spring
	7	CBF-166	Washer
★★	8	EXA1012	Reel Unit
	9	BMZ23P030FMC	Screw
	10	BSZ23P040FMC	Screw
	11		Bracket
	12	PMS26P025FUC	Screw
	13	ENC1013	Cassette Holder
	14	EBH1019	Spring
	15	EBA1009	Screw
	16	ELA1042	Collar
	17	ENV1032	Arm
	18	ENV1031	Arm
	19	YE12FUC	Washer
	20	EBH1038	Spring
	21	EBH1012	Spring
	22		Lever Unit
	23	YE15FUC	Washer
	24	CBF-165	Washer
	25	EBH1049	Spring
	26		Arm
	27	EBH1060	Spring
	28	EBH1066	Spring
	29		Arm
	30		Arm
	31	·····	
	32		Arm
	33	EBH1008	Spring
	34		Arm Unit
	35	CBG1001	Washer
	36	HBF-179	Washer
	37	ENV1029	Flywheel(N)
	38	ENV1030	Flywheel(R)
★★	39	ENT1003	Belt
	40	ELA1051	Roller
	41	EXA1014	Cassette Frame Unit
	42	PMS20P040FMC	Screw
	43	ENV1016	Tape Guide
	44	EBH1047	Spring
	45		Lever
	46		Arm

Mark	No.	Part No.	Description
	47	EBH1040	Spring
	48	EBH1041	Spring
	49	EBH1021	Spring
	50		Lever
	51	EBE1001	Washer
	52	EBH1009	Spring
★★	53	ENT1006	Belt
	54	ENV1034	Gear
	55	CBF-135	Washer
	56	ENV1037	Gear
	57		Cover
	58	EBA1013	Screw
	59	BMZ20P050FMC	Screw
★★	60	EPB1001	Head
	61	EBH1065	Spring
	62	ENP1003	P.C.Board
	63		Arm
	64	EXA1004	Head Base Unit
	65	EBH1004	Spring
	66	EBH1003	Spring
	67	CNV1667	Cushion
	68	YE20FUC	Washer
★★	69	EXA1002	Roller Unit
	70		Chassis Unit
	71	EBF1004	Washer
	72	ENV1009	Pulley
	73		Lever
	74	EBH1025	Spring
	75	EBL1001	Spring
	76	ENV1010	Pulley
	77		Arm
	78	HBA-147	Screw
	79	ENV1035	Gear
	80	ELA1018	Collar
	81		Arm
	82		Plug
	83	ENV1011	Gear
	84		Arm
	85	EBH1024	Spring
	86		Ratchet
	87	EBH1018	Spring
★★	88	EXA1003	Roller Unit
	89		Arm
	90		Lever
	91	EBH1013	Spring

- Cassette Mechanism Unit



Mark No.	Part No.	Description
95	HBA-212	Screw
96	EBH1007	Spring
97	EBH1006	Spring
98	EBH1058	Spring
99	EBF1005	Washer
100		Arm Unit
101	ENV1018	Gear
102	ENV1017	Gear
103	EBH1022	Spring
104	EXA1005	Arm Unit
105		Plug
106	EBA1010	Screw
107	BMZ20P070FMC	Screw
108		Bracket
109	EBH1016	Spring
110		Lever Unit
111	EBH1048	Spring
112	EBH1005	Spring
113		Lever
114		Lever
115		Arm
116	WH23FMC	Washer

*)Number 92 is part of the chassis unit and cannot be removed.

Fig. 31

22. CASSETTE MECHANISM UNIT

(KE-3060SDK, 3060, 3060B, 3040)

• Parts List

Mark	No.	Part No.	Description
★★	1	EXA1013	Motor Unit
	2,3	·····	
	4,5	·····	
	6	EBH1056	Spring
	7	CBF-166	Washer
★★	8	EXA1012	Reel Unit
	9	BMZ23P030FMC	Screw
	10	BSZ23P040FMC	Screw
	11		Bracket
	12	PMS26P025FUC	Screw
	13	ENC1013	Cassette Holder
	14	EBH1019	Spring
	15	EBA1009	Screw
	16	ELA1042	Collar
	17	ENV1032	Arm
	18	ENV1031	Arm
	19	YE12FUC	Washer
	20-22	·····	
	23	YE15FUC	Washer
	24	CBF-165	Washer
	25	EBH1049	Spring
	26		Arm
	27	EBH1060	Spring
	28	EBH1066	Spring
	29		Arm
	30		Arm
	31	·····	
	32		Arm
	33	EBH1050	Spring
	34		Arm Unit
	35	CBG1001	Washer
	36	HBF-179	Washer
	37	ENV1029	Flywheel(N)
	38	ENV1030	Flywheel(R)
★★	39	ENT1003	Belt
	40	ELA1051	Roller
	41	EXA1014	Cassette Frame Unit
	42	PMS20P040FMC	Screw
	43	ENV1016	Tape Guide
	44	EBH1047	Spring
	45		Lever
	46		Arm
	47	EBH1040	Spring
	48	EBH1041	Spring
	49	EBH1021	Spring
	50		Lever
	51	EBE1001	Washer
	52	EBH1009	Spring
★★	53	ENT1006	Belt
	54	ENV1034	Gear
	55	CBF-135	Washer
	56	ENV1037	Gear
	57		Cover
	58	EBA1013	Screw
	59	BMZ20P050FMC	Screw
★★	60	EPB1001	Head
	61	EBH1065	Spring
	62	ENP1003	P.C.Board
	63		Arm
	64	EXA1004	Head Base Unit
	65	EBH1004	Spring
	66	EBH1003	Spring
	67	CNV1667	Cushion
	68	YE20FUC	Washer
★★	69	EXA1002	Roller Unit
	70		Chassis Unit
	71	EBF1004	Washer
	72	ENV1009	Pulley
	73		Lever
	74	EBH1025	Spring
	75	EBL1001	Spring
	76	ENV1010	Pulley
	77		Arm
	78	HBA-147	Screw
	79	ENV1035	Gear
	80	ELA1018	Collar
	81		Arm
	82		Plug
	83	ENV1011	Gear
	84		Arm
	85	EBH1024	Spring
	86		Ratchet
	87	EBH1018	Spring
★★	88	EXA1003	Roller Unit
	89		Arm
	90		Lever
	91	EBH1013	Spring
	92	*	
	93	ENV1043	Gear
	94	ELA1032	Collar

23. ELECTRICAL PARTS LIST

NOTE:

- *For your parts Stock Control, the fast moving items are indicated with the marks ‡‡ and ‡.*
  ‡‡ : GENERALLY MOVES FASTER THAN ‡.
  This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.
- *Parts whose parts numbers are omitted are subject to being not supplied.*
- *The part numbers shown below indicate chip components.* *Chip Resistor*
  RS1/8S □□□J, RS1/10S □□□J
  Chip Capacitor (except for CQS.....)
  CKS....., CCS....., CSZS.....

• KE-3090SDK/WG, KE-3090/EW, KE-3090B/EI, KE-3070QR/ES

Unit Number :
Unit Name : AM Unit

MISCELLANEOUS

Mark	Circuit Symbol & No.	Part Name	Part No.
‡‡	IC 201		PA4010
‡‡	Q 201		2SK435
‡‡	Q 202		2SC2458
			(2SC1740S)
‡‡	Q 203 204 205		DTC124ES
‡	D 201 202 204 205		1SS176
			(1SS133)
			(US1040M)
‡	D 203	Variable Capacitance Diode	SVC203-AB
	L 201	Ferri-Inductor 1mH	CTF1026
	L 202	Ferri-Inductor 22μH	LAU220K
	L 203	Ferri-Inductor 47μH	LAU470K
	L 204	Ferri-Inductor 100μH	CTF-157
	L 205	Ferri-Inductor 4.7μH	LAU4R7K
	T 201	Coil	CTB1020
	T 202	Coil	CTB1004
	T 203	Coil	CTB1017
	T 204	Coil	CTE1013
	T 205	Coil	CTE1014
	T 206	Coil	CTE1015
	X 201	Xtal Resonator	CSS1014
	CF 201	Filter	CTF1027
	CF 202	Filter	CTF-100

RESISTORS

Mark	Circuit Symbol & No.	Part Name	Part No.
	R 201		RD1/4PS220JL
	R 202		RD1/4PS681JL
	R 203 221		RD1/4PS222JL
	R 204		RS1/10S473J
	R 205		RS1/10S470J
	R 206		RS1/10S222J
	R 207		RS1/10S822J
	R 208 212		RS1/10S103J
	R 209		RS1/8S470J
	R 210		RS1/10S682J
	R 211		RS1/10S104J
	R 213		RS1/10S103J
	R 214		RS1/10S103J
	R 220		RS1/8S0R0J

CAPACITORS

Mark	Circuit Symbol & No.	Part Name	Part No.
	C 201 209 223 231		CKSQYB103K5
	C 202 212 214		CKSQYB332K5
	C 203 215 216 219		CKSQYF473Z5
	C 204 208 210		CKSQYB223K5
	C 213		CCSQCH220J5
	C 206 207		CCSQCH820J5
	C 211		CEA010M50LL
	C 218		CEA2R2M35NP
	C 220		CCSQCH430J5
	C 221		CCSQCH100D5
	C 222		CSZA010K25
	C 224 229		CEA470M16LL
	C 225		CKSQYF333Z5
	C 226		CKSYF683Z50
	C 227		CEA4R7M35LL
	C 228		CKSYB103K50
	C 230		CEA220M16LL
	C 232		CCSQCH220J5

Unit Number :
Unit Name : FM Unit

MISCELLANEOUS

Mark	Circuit Symbol & No.	Part Name	Part No.
‡‡	IC 51		LA1140R
‡‡	IC 101		LA2110
‡‡	IC 151		LA3430P
‡‡	Q 1	Chip Transistor	2SA1162
			(2SA1179)
‡‡	Q 2	Chip Transistor	DTC124EK
‡‡	Q 51	Chip Transistor	2SC2712
			(2SD601)
‡‡	Q 71	Chip Transistor	2SJ106
‡	D 1		1S2473
‡	D 151		1S2473VH
	L 1 51	Ferri-Inductor 15μH	LAU150K
	T 51	Coil	CTC1029
	CF 51 52	Ceramic Filter	CTF-182
	CR 101		CWW-107
	X 151	Ceramic Resonator	CSS1028
			(CSS1022)
‡‡	VR 1	Semi-fixed 10kΩ(B)	VRTB6VS103
‡‡	VR 51	Semi-fixed 150kΩ(B)	VRTB6VS154
‡‡	VR 152	Semi-fixed 15kΩ(B)	VRTB6VS153
		Front End Unit	CWR1032

RESISTORS

Mark	Circuit Symbol & No.	Part Name	Part No.
R	2 7 152		RS1/10S223J
R	4 58 104		RS1/10S682J
R	5		RS1/10S471J
R	6		RS1/10S681J
R	8		RS1/10S102J
R	21		RS1/8S0R0J
R	51		RS1/10S0R0J
R	52		RS1/10S331J
R	53 159		RS1/10S473J
R	54		RS1/8S103J
R	55 60		RS1/10S153J
R	56		RS1/10S123J
R	57		RS1/8S473J
R	59		RD1/4PS183JL
R	61 62 153		RS1/10S472J
R	71		RS1/10S474J
R	101		RS1/10S332J
R	102		RS1/10S392J
R	103		RS1/10S333J
R	106 151		RS1/10S222J
R	156(WG, EW, EI) 157(WG, EW, EI)		RS1/10S332J
R	156(ES) 157(ES)		RS1/10S202J
R	158		RS1/10S334J

CAPACITORS

Mark	Circuit Symbol & No.	Part Name	Part No.
C	1		CKSYB102K50
C	2 3 101 102		CKSQYB103K25
C	4 51 52 53 54 59 151		CKSQYF473Z50
C	55 62		CCSQSL330J50
C	56 63		CEAR47M50LS2
C	57		CKSYF104Z25
C	58 156		CEA010M50LS2
C	60		CCSQSL101J50
C	61		CEA4R7M16NPLL
C	70		CCSQCH200J50
C	103		CEA150M16LS
C	104		CKSQYB182K50
C	105		CEA470M16LS
C	152		CKSQYB332K50
C	153		CKSQYB223K25
C	154		CKSQYB153K25
C	155		CEA3R3M50LS
C	157		CS7AR22M35
C	158(WG, EW, EI)		CCSQSL681J50
C	159(WG, EW, EI) 160(WG, EW, EI)		CKSYB183K25
C	159(ES) 160(ES)		CKSYB273K25
C	161		CEA101M10LS

Unit Number :
Unit Name : Tuner Amp Unit

MISCELLANEOUS

Mark	Circuit Symbol & No.	Part Name	Part No.
##	IC 251		M51522AL
##	IC 451 771		TA75558S
##	IC 551		TA7[illegible]0P
##	IC 651		TA8214K
##	IC 701		PD4163
##	IC 801(WG)		KHA142
##	IC 821(WG)		TA75558S
##	Q 251 252 655 659 660 663 664		2SC2458
##	Q 253(WG)		2SC2458
##	Q 254 (WG)		2SA1048
##	Q 605 703 712		DTC144ES
##	Q 651 652		2SD1468S
##	Q 653 669		2SD1919
##	Q 654 657 658		2SA1048
##	Q 665(WG)		DTC314TS
##	Q 701		2SC2498 (2SC2026)
##	Q 702 707		2SC2458
##	Q 704(EW, EI, ES)		DTC144ES
##	Q 705(WG, EW, EI)		DTC144ES
##	Q 706		2SK330
##	Q 711 715		2SC3113
##	Q 713(WG) 821(WG) 822(WG) 823(WG)		2SC2458
#	D 251 656 662 665 703 707 771 772		1SS133 (1SS176)
#	D 565		HZS10EB1 (RD10ESB1)
#	D 601 653 714 715 716 717	1S1555	
#	D 651		HZS9R1EB1 (RD9R1ESB1)
#	D 652 773 774 775 776 804		1SS133 (1SS176)
#	D 657		HZS5R1EB2 (RD5R1ESB2)
#	D 658		HZS7R5EB2 (RD7R5ESB2)
#	D 659		HZS5R6JB2 (RD5R6JSB2)
#	D 666(EW, EI, ES)		1SS133 (1SS176)
#	D 701(WG)		HZS5R1EB2 (RD5R1ESB2)
#	D 702		HZS3R0EB2 (RD3R0ESB2)
#	D 705		1SS135
#	D 710(ES) 718(ES)		1SS133 (1SS176)
#	D 712(WG) 720(WG)		1SS133 (1SS176)
#	D 761		MA70
#	D 801		ERC05-10B
	L 702	Ferri-Inductor 2.2μH	LAU2R2M
	L 801	Choke Coil	CTH1021
	L 802 804	Filter	CCG1003
	H 101		DSP-201M-BF
	X 701	Xtal Resonator	CSS1011
	X 801(WG)	Ceramic Resonator	CSS1019
##	S 451 951 952 953	Switch	CSG-207
##	IL 771 772	Lamp 14V 40mA	CEL1034
##	VR 451 452	Volume 50kΩ(B)	CCS-401
##	VR 453/VR454/VR455/S561	Volume/Switch 200Ω, 50kΩ(W), 20kΩ(B)	CCS1037
	LCD		CWW1216

RESISTORS

Mark	Circuit Symbol & No.	Part Name	Part No.
R	251 252		RS1/10S151J
R	257 258		RS1/10S133J
R	259 260		RS1/10S334J
R	261 262 467 468		RS1/10S272J
R	263 264 453 454 455 456		RS1/10S332J
R	265 266		RS1/10S104J
R	271(WG) 272(WG)		RD1/4PS223JL
R	273		RS1/8S0R0J
R	274		RS1/10S0R0J
R	275(WG)		RS1/10S103J
R	308 309 653		RS1/10S471J
R	401 402 463 662 664 666		RS1/10S103J
R	457 459 555 556		RS1/10S153J
R	458		RD1/4PM153J
R	460		RD1/4PS153JL
R	464		RS1/8S223J
R	465 466 655 701 720 722 727		RS1/10S102J
R	469 470		RS1/8S272J
R	481 482 620 622 724 740		RS1/8S0R0J
R	551 552		RD1/4PM103J
R	553		RS1/8S101J
R	554 704 705		RS1/10S101J
R	557		RD1/4PS010JL
R	604 739 780		RS1/10S222J
R	621(WG, ES)		RS1/8S0R0J
R	623 746 747 784		RS1/10S0R0J
R	626(EW, EI, ES)		RS1/10S0R0J
R	651 652 654 687		RS1/10S223J
R	656		RS1/10S221J
R	658 659 660 669 683 736		RD1/4PS103JL
R	661 670 674 710 771 772 773		RS1/10S473J
R	663 665 675 711 742		RD1/4PS472JL
R	667		RS1/10S331J
R	668		RD1/4PS221JL
R	671		RS1/10S561J
R	678		RD1/4PM821J
R	682 684 735		RD1/4PS223JL
R	702		RS1/10S182J
R	703		RD1/4PS821JL
R	706		RD1/4PS331JL
R	707		RD1/4PS222JL
R	708(WG)		RS1/10S103J
R	709(WG) 827(WG)		RD1/4PS472JL
R	712(WG) 713(WG) 802(WG)		RD1/4PS473JL
R	714		RD1/4PM473J
R	715(WG) 774		RS1/8S473J
R	716		RD1/4PM393J
R	717		RD1/4PS473JL
R	718(WG, EW, EI) 719(WG, EW, EI)		RS1/10S222J
R	718(ES)		RS1/10S0R0J
R	719(ES)		RS1/10S272J
R	721 741		RS1/10S472J
R	723		RS1/10S152J
R	728(WG) 801(WG) 826(WG)		RS1/10S222J
R	729(WG) 821(WG)		RS1/10S223J
R	733 737		RD1/4PM104J
R	738		RD1/4PS221JL
R	774		RS1/8S473J
R	775 776		RS1/10S154J
R	777 778		RS1/10S682J
R	779		RS1/10S563J
R	783		RS1/10S333J
R	812(WG)		RS1/10S221J
R	813(WG) 814(WG)		RS1/10S912J
R	815(WG)		RD1/4PS2R2JL
R	822(WG)		RS1/10S333J
R	823(WG)		RS1/10S182J
R	828(WG)		RS1/10S122J
R	829(WG)		RS1/10S472J
R	830(WG)		RS1/8S223J
R	831(WG)		RS1/10S563J
R	832(WG)		RS1/10S102J
R	833(WG)		RD1/4PS271JL

CAPACITORS

Mark	Circuit Symbol & No.	Part Name	Part No.
C	251 252		CCSQCH471J50
C	253 254		CEANL4R7M35LL
C	255 256 563 655 661		CEA470M16LS
C	257 258 401 402 651 710 711 716 719 720		CKSQYB103K50
C	259 260 501 502		CKSQYB223K25
C	261		CEA101M10LL
C	263 471 656 659 660 773 774		CEA100M16LS2
C	453 454		CKSQYB332K50
C	457 458		CKSQYF333Z50
C	459 460		CCSQCH330J50
C	461 462		CEA4R7M35LS
C	463 464		CKSQYB272K50
C	465 466		CEAR33M50LS2
C	503		CGCYX223K25
C	551 552		CCSQCH331J50
C	553 554		CEA010M50LS2
C	555 556		CEA470M16L2
C	557 558		CEA101M10L2
C	559 560		CQMA224J50
C	561 562		CEA102M10L2
C	564		CEA222M16L2
C	565		CQMA154J50
C	654		CEA680M10LS
C	657 670 713		CKSQYF473Z25
C	658		CEA470M16LS
C	663 664 801		CKSQYB472K50
C	665		CEA220M16LS
C	671		CEA470M10L2
C	672		CEA331M10L2
C	673		CEA470M10LS
C	701		CCSQSL561J50
C	702 735		CKSQYB103K50
C	703 704		CCSQCH101J50
C	705	4.7μF/16V	CCH1005
C	706(WG)		CKSQYB102K50

Mark	Circuit Symbol & No.	Part Name	Part No.
	C 707 730		CKSYB103K50
	C 709(WG, EW, EI)		CEAR47M50LS2
	C 714 715		CCSQCH090D50
	C 771 772		CEA4R7M16NPLL
	C 802		CEA100M25L2
	C 805(WG)		CEA220M16LS
	C 806(WG)		CKSQYB103K50
	C 807(WG)		CQMA683K50
	C 808(WG) 829(WG)		CEA470M16LS
	C 809(WG) 821(WG) 830(WG)		CEA4R7M35LS
	C 810(WG)		CEAR33M50LS2
	C 822(WG) 825(WG)		CEAR47M50LS2
	C 823(WG) 824(WG)		CKSQYB223K25
	C 826(WG)		CCSQCH471J50
	C 827(WG)		CCSQCH271J50

Unit Number :
Unit Name : MS Dolby NR Unit

MISCELLANEOUS

Mark	Circuit Symbol & No.	Part Name	Part No.
##	IC 301		CXA1102P
##	IC 401		PA0011
##	Q 401 402		2SC2458
##	Q 403		2SA1048
#	D 401		HZS9R1EB2
##	VR 301 302	Semi-fixed 33kΩ(B)	VRTB6VS333

RESISTORS

Mark	Circuit Symbol & No.	Part Name	Part No.
	R 301		RS1/10S433J
	R 302		RS1/8S103J
	R 303 403 410		RS1/10S103J
	R 305		RS1/10S273J
	R 306		RS1/10S273J
	R 404		RS1/10S224J
	R 405		RS1/10S154J
	R 406		RS1/10S223J
	R 407 408		RD1/4PS222JL
	R 409		RS1/10S271J
	R 411		RD1/4PS472JL
	R 415		RS1/10S0R0J

CAPACITORS

Mark	Circuit Symbol & No.	Part Name	Part No.
	C 301 302 404 405 406		CEA010M50LS2
	C 319		CEA101M10LL
	C 321 409		CEA470M16LS
	C 322 323		CEAR68M50LS2
	C 324 408		CEA4R7M35LS
	C 325		CKSQYB103K50
	C 403		CKSQYB392K50
	C 407		CEA220M16LS

Unit Number :
Unit Name : Front L Unit

Mark	Circuit Symbol & No.	Part Name	Part No.
##	IL 901 902 903	Lamp 14V 40mA	CEL1004
##	S 904 905 906 907 908 914 915 924 925 926	Switch	CSG1021
##	S 934 935 936	Switch	CSG1021

Unit Number :
Unit Name : Front R Unit

Mark	Circuit Symbol & No.	Part Name	Part No.
#	D 951 952	LED	SLR-320DU3LM
##	IL 951	Lamp 14V 40mA	CEL1004

Unit Number :
Unit Name : Switch P.C.Board

Mark	Circuit Symbol & No.	Part Name	Part No.
#	D 1		F1SR35-100A
##	S 1 2	Switch(Mute, Motor)	ESN1001
##	S 3	Switch(Tape/Tuner)	HSK-126

Unit Number :
Unit Name : P.C.Board Unit

Mark	Circuit Symbol & No.	Part Name	Part No.
##	S 1	Switch(FWD/REV)	ESH1001

Miscellaneous Parts List

Mark	Circuit Symbol & No.	Part Name	Part No.
##	HD 1	Head	EPB1001
##	M 1	Motor Unit	EXA1013
#	SO 1	Solenoid	EXP1001
	B 761	Battery	CEX1005 (CEX1008)

• KE-3060SDK/WG, KE-3060/EW, KE-3060B/EI, KE-3040/ES

Model Number : KE-3060SDK/WG

Unit Number :
Unit Name : AM Unit

MISCELLANEOUS

Mark	Circuit Symbol & No.	Part Name	Part No.
##	IC 201		PA4010
##	Q 201		2SK435
##	Q 202		2SC2458 (2SC1740S)
##	Q 203 204 205		DTC124ES
#	D 201 202 204 205		1SS176 (1SS133) (US1040M)
#	D 203	Variable Capacitance Diode	SVC203-AB
	L 201	Ferri-Inductor 1mH	CTF1026
	L 202	Ferri-Inductor 22μH	LAU220K
	L 203	Ferri-Inductor 47μH	LAU470K
	L 204	Ferri-Inductor 100μH	CTF-157
	L 205	Ferri-Inductor 4.7μH	LAU4R7K
	T 201	Coil	CTB1020
	T 202	Coil	CTB1004
	T 203	Coil	CTB1017
	T 204	Coil	CTE1013
	T 205	Coil	CTE1014
	T 206	Coil	CTE1015
	X 201	Xtal Resonator	CSS1014
	CF 201	Filter	CTF1027
	CF 202	Filter	CTF-100

RESISTORS

Mark	Circuit Symbol & No.	Part Name	Part No.
	R 201		RD1/4PS220JL
	R 202		RD1/4PS681JL
	R 203 221		RD1/4PS222JL
	R 204		RS1/10S473J
	R 205		RS1/10S470J
	R 206		RS1/10S222J
	R 207		RS1/10S822J
	R 208 212		RS1/10S103J
	R 209		RS1/8S470J
	R 210		RS1/10S682J
	R 211		RS1/10S104J
	R 213		RS1/10S103J
	R 214		RS1/10S103J
	R 220		RS1/8S0R0J

CAPACITORS

Mark	Circuit Symbol & No.	Part Name	Part No.
	C 201 209 223 231		CKSQYB103K50
	C 202 212 214		CKSQYB332K50
	C 203 215 216 219		CKSQYF473Z50
	C 204 208 210		CKSQYB223K50
	C 213		CCSQCH220J50
	C 206 207		CCSQCH820J50
	C 211		CEA010M50LL
	C 218		CEA2R2M35NPLL
	C 220		CCSQCH430J50
	C 221		CCSQCH100D50
	C 222		CSZA010K25
	C 224 229		CEA470M16LL
	C 225		CKSQYF333Z50
	C 226		CKSYF683Z50
	C 227		CEA4R7M35LL
	C 228		CKSYB103K50
	C 230		CEA220M16LL
	C 232		CCSQCH220J50

Unit Number :
Unit Name : FM Unit

MISCELLANEOUS

Mark	Circuit Symbol & No.	Part Name	Part No.
##	IC 51		LA1140B
##	IC 101(WG, EW, EI)		LA2110
##	IC 151		LA3430P
##	Q 1	Chip Transistor	2SA1162 (2SA1179)
##	Q 2	Chip Transistor	DTC124EK
##	Q 51	Chip Transistor	2SC2712 (2SD601)
##	Q 71	Chip Transistor	2SJ106
#	D 1		1S2473
#	D 151		1S2473VH
	L 1 51	Ferri-Inductor 15μH	LAU150K
	T 51	Coil	CTC1029
	CF 51 52	Ceramic Filter	CTF-182
	CR 101(WG, EW, EI)		CWW-107
	X 151	Ceramic Resonator	CSS1028 (CSS1022)
##	VR 1	Semi-fixed 10kΩ(B)	VRTB6VS103
##	VR 51	Semi-fixed 150kΩ(B)	VRTB6VS154
##	VR 152	Semi-fixed 15kΩ(B)	VRTB6VS153
		Front End Unit	CWB1032

RESISTORS

Mark	Circuit Symbol & No.	Part Name	Part No.
	R 2 7		RS1/10S223J
	R 4 58		RS1/10S682J
	R 5		RS1/10S471J
	R 6		RS1/10S681J
	R 8		RS1/10S102J
	R 21		RS1/8S0R0J
	R 51		RS1/10S0R0J
	R 52		RS1/10S331J
	R 53		RS1/10S473J
	R 54		RS1/8S103J
	R 55 60		RS1/10S153J
	R 56		RS1/10S123J
	R 57		RS1/8S473J
	R 59		RD1/4PS183JL
	R 61 62 153		RS1/10S472J

Mark	Circuit Symbol & No.	Part Name	Part No.
	R 71		RS1/10S474J
	R 101(WG, EW, EI)		RS1/10S332J
	R 101(ES)		RS1/10S183J
	R 102(WG, EW, EI)		RS1/10S392J
	R 103(WG, EW, EI)		RS1/10S333J
	R 104(WG, EW, EI)		RS1/10S682J
	R 106(WG, EW, EI)		RS1/10S222J
	R 151		RS1/10S222J
	R 152(WG, EW, EI)		RS1/10S223J
	R 156(WG, EW, EI) 157(WG, EW, EI)		RS1/10S332J
*	R 156(ES) 157(ES)		RS1/10S202J
	R 158		RS1/10S334J
	R 159(WG, EW, EI)		RS1/10S473J
	R 159(ES)		RS1/10S183J

CAPACITORS

Mark	Circuit Symbol & No.	Part Name	Part No.
	C 1		CKSYB102K50
	C 2 3		CKSQYB103K25
	C 4 51 52 53 54 59		CKSQYF473Z50
	C 55 62		CCSQSL330J50
	C 56 63		CEAR47M50LS2
	C 57		CKSYF104Z25
	C 58 156		CEA010M50LS2
	C 60		CCSQSL101J50
	C 61(WG, EW, EI)		CEA4R7M16NPLL
	C 61(ES)		CEA220M16LS
	C 70		CCSQCH200J50
	C 101(WG, EW, EI) 102(WG, EW, EI)		CKSQYB103K25
	C 103(WG, EW, EI)		CEA150M16LS
	C 104(WG, EW, EI)		CKSQYB182K50
	C 105(WG, EW, EI)		CEA470M16LS
	C 151(WG, EW, EI)		CKSQYF473Z50
	C 151(ES)		CEAR47M50LS
	C 152		CKSQYB332K50
	C 153		CKSQYB223K25
	C 154		CKSQYB153K25
	C 155		CEA3R3M50LS
	C 157		CS7AR22M35
	C 158(WG, EW, EI)		CCSQSL681J50
	C 159(WG, EW, EI) 160(WG, EW, EI)		CKSYB183K25
	C 159(ES) 160(ES)		CKSYB273K25
	C 161		CEA101M10LS

Unit Number :
Unit Name : Tuner Amp Unit

MISCELLANEOUS

Mark	Circuit Symbol & No.	Part Name	Part No.
##	IC 251		M51522AL
##	IC 551		TA7280P
##	IC 651		TA8214K
##	IC 701		PD4163
##	IC 771		TA75558S
##	IC 801(WG)		KHA142
##	IC 821(WG)		TA75558S
##	Q 253(WG)		2SC2458
##	Q 254(WG)		2SA1048
##	Q 605 703 712		DTC144ES
##	Q 651 652		2SD1468S
##	Q 653 669		2SD1919
##	Q 654 657 658		2SA1048
##	Q 655 659 660 663 664		2SC2458
##	Q 665(WG)		DTC314TS
##	Q 701		2SC2498 (2SC2026)
##	Q 702 707		2SC2458
##	Q 704(EW, EI, ES)		DTC144ES
##	Q 705(WG, EW, EI)		DTC144ES
##	Q 706		2SK330
##	Q 711 715		2SC3113
##	Q 713(WG) 821(WG) 822(WG) 823(WG)		2SC2458
#	D 251 656 662 665 703 707 771 772		1SS133 (1SS176)
#	D 565		HZS10EB1 (RD10ESB1)
#	D 601 653 714 715 716 717		1S1555
#	D 651		HZS9R1EB1 (RD9R1ESB1)
#	D 652 773 774 775 776		1SS133 (1SS176)
#	D 657		HZS5R1EB2 (RD5R1ESB2)
#	D 658		HZS7R5EB2 (RD7R5ESB2)
#	D 666(EW, EI, ES)		1SS133 (1SS176)
#	D 659		HZS5R6JB2 (RD5R6JSB2)
#	D 701(WG)		HZS5R1EB2 (RD5R1ESB2)
#	D 702		HZS3R0EB2 (RD3R0ESB2)
#	D 705		1SS135
#	D 710(ES) 718(ES) 803(ES)		1SS133 (1SS176)
#	D 712(WG) 720(WG)		1SS133 (1SS176)
#	D 761(WG, EW, EI)		MA700
#	D 801		ERC05-10B
#	D 802(ES)		ERC05-10B
#	D 804(WG, EW, EI)		1SS133 (1SS176)
	L 702	Ferri-Inductor 2.2μH	LAU2R2M
	L 801	Choke Coil	CTH1021
	L 802 804	Filter	CCG1003
	L 803(ES)	Filter	CCG1003
	H 101		DSP-201M-BF
	X 701	Xtal Resonator	CSS1011
	X 801(WG)	Ceramic Resonator	CSS1019
##	IL 771 772	Lamp 14V 40mA	CEL1034
##	VR 453	Volume 50kΩ(G)	CCS-402
##	VR 454/VR455/S561	Volume/Switch 200Ω, 20kΩ(B)	CCS1109
##	VR 456	Volume 20kΩ(A)	CCS-374
		LCD	CWW1216

RESISTORS

Mark	Circuit Symbol & No.	Part Name	Part No.
	R 251 252		RS1/10S151J
	R 257 258		RS1/10S133J
	R 259 260		RS1/10S334J
	R 261 262 723		RS1/10S152J
	R 271(WG) 272(WG)		RD1/4PS223JL
	R 273		RS1/8S222J
	R 274 604 739 780		RS1/10S222J
	R 275(WG) 708(WG)		RS1/10S103J
	R 451 452		RS1/10S272J
	R 463 662 664 666		RS1/10S103J
	R 464		RS1/8S223J
	R 467(WG)		RS1/10S0R0J
	R 468 623 746 747 784		RS1/10S0R0J
	R 469 470		RS1/8S272J
	R 481 482		RS1/8S102J
	R 551 552		RD1/4PM103J
	R 553		RS1/8S101J
	R 554 704 705		RS1/10S101J
	R 555 556		RS1/10S153J
	R 557		RD1/4PS010JL
	R 620 622 724 740		RS1/8S0R0J
	R 621(WG, ES)		RS1/8S0R0J
	R 626(EW, EI, ES)		RS1/10S0R0J
	R 651 652 654 687		RS1/10S223J
	R 653		RS1/10S471J
	R 655 701 720 722 727		RS1/10S102J
	R 656		RS1/10S221J
	R 658 659 660 669 683 736		RD1/4PS103JL
	R 663 665 675 711 742		RD1/4PS472JL
	R 667		RS1/10S331J
	R 668		RD1/4PS221JL
	R 670 674 710 771 772 773		RS1/10S473J
	R 671		RS1/10S561J
	R 678		RD1/4PM821J
	R 682 684 735		RD1/4PS223JL
	R 702		RS1/10S182J
	R 703		RD1/4PS821JL
	R 706		RD1/4PS331JL
	R 707		RD1/4PS222JL
	R 709(WG) 827(WG)		RD1/4PS472JL
	R 712(WG) 713(WG) 802(WG)		RD1/4PS473JL
	R 714		RD1/4PM473J
	R 715(WG)		RS1/8S473J
	R 716		RD1/4PM393J
	R 717		RD1/4PS473JL
	R 718(WG, EW, EI) 719(WG, EW, EI)		RS1/10S222J
	R 718(ES)		RS1/10S0R0J
	R 719(ES)		RS1/10S272J
	R 721 741		RS1/10S472J
	R 728(WG) 801(WG) 826(WG)		RS1/10S222J
	R 729(WG) 777(WG) 778(WG) 821(WG)		RS1/10S223J
	R 733 737		RD1/4PM104J
	R 738		RD1/4PS221JL
	R 774		RS1/8S473J
	R 775(WG) 776(WG)		RS1/10S184J

Mark	Circuit Symbol & No.	Part Name	Part No.
	R 775(EW, EI, ES) 776(EW, EI, ES)		RS1/10S154J
	R 779		RS1/10S563J
	R 783		RS1/10S333J
	R 812(WG)		RS1/10S221J
	R 813(WG)		RS1/10S912J
	R 815(WG)		RD1/4PS2R2JL
	R 822(WG)		RS1/10S333J
	R 823(WG)		RS1/10S182J
	R 828(WG)		RS1/10S122J
	R 829(WG)		RS1/10S472J
	R 830(WG)		RS1/8S223J
	R 831(WG)		RS1/10S563J
	R 832(WG)		RS1/10S102J
	R 833(WG)		RD1/4PS271JL

CAPACITORS

Mark	Circuit Symbol & No.	Part Name	Part No.
	C 251 252		CCSQCH471J50
	C 253 254		CEANL4R7M35LL
	C 255 256 563 655 661		CEA470M16LS
	C 257 258 651 710 711 716 719 720		CKSQYB103K50
	C 261		CEA101M10LL
	C 451 452 553 554		CEAO10M50LS2
	C 465 466		CEAR47M50LS2
	C 471 656 659 660		CEA100M16LS2
	C 473 474		CEAR15M50LS2
	C 501 502		CKSQYB223K25
	C 503		CGCYX223K25
	C 551 552		CCSQCH331J50
	C 555 556		CEA470M16L2
	C 557 558		CEA101M10L2
	C 559 560		CQMA224J50
	C 561 562		CEA102M10L2
	C 564		CEJ222M16L2
	C 565		CQMA154J50
	C 654		CEJ680M10LS
	C 657 670 713		CKSQYF473Z25
	C 658(WG, EW, EI)		CEA470M16LS
	C 658(ES)	470μF/6.3V	CCH1013
	C 663 664 801		CKSQYB472K50
	C 665		CEJ220M16LS
	C 671		CEA470M10L2
	C 672		CEA331M10L2
	C 673		CEA470M10LS
	C 701		CCSQSL561J50
	C 702 735		CKSQYB103K50
	C 703 704		CCSQCH101J50
	C 705	4.7μF/16V	CCH1005
	C 706(WG)		CKSYB102K50
	C 707 730		CKSYB103K50
	C 709(WG, EW, EI)		CEAR47M50LS2
	C 714 715		CCSQCH090D50
	C 771(WG) 772(WG)		CEAUR7M16NPLL
	C 771(EW, EI, ES) 772(EW, EI, ES)		CEAUR7M35LS
	C 773(WG) 774(WG)		CEAU00M16LS2
	C 802		CEAU00M25L2
	C 803(ES)		CEAU00M25L2

Mark	Circuit Symbol & No.	Part Name	Part No.
	C 804(ES)		CKSQYB472K50
	C 805(WG)		CEA220M16LS
	C 806(WG)		CKSQYB103K50
	C 807(WG)		CQMA683K50
	C 808(WG) 829(WG)		CEA470M16LS
	C 809(WG) 821(WG) 830(WG)		CEA4R7M35LS
	C 810(WG)		CEAR33M50LS2
	C 822(WG) 825(WG)		CEA100M16LS2
	C 823(WG) 824(WG)		CKSQYB223K25
	C 826(WG)		CCSQCH471J50
	C 827(WG)		CCSQCH271J50

Unit Number :
Unit Name : Front L Unit

Mark	Circuit Symbol & No.	Part Name	Part No.
##	IL 901 902 903	Lamp 14V 40mA	CEL1004
##	S 904 905 906 907 908 914 915 924 925 926	Switch	CSG1021
##	S 934 935 936	Switch	CSG1021

Unit Number :
Unit Name : Front R Unit

Mark	Circuit Symbol & No.	Part Name	Part No.
#	D 951 952	LED	SLR-320DU3LM
##	IL 951	Lamp 14V 40mA	CEL1004

Unit Number :
Unit Name : Switch P.C.Board

Mark	Circuit Symbol & No.	Part Name	Part No.
##	S 1 2	Switch(Mute, Motor)	ESN1001
##	S 3	Switch(Tape/Tuner)	HSK-126

Unit Number :
Unit Name : P.C.Board Unit

Mark	Circuit Symbol & No.	Part Name	Part No.
##	S 1	Switch(FWD/REV)	ESH1001

Miscellaneous Parts List

Mark	Circuit Symbol & No.	Part Name	Part No.
##	HD 1	Head	EPB1001
##	M 1	Motor Unit	EXA1013
	B 761	Battery	CEX1005 (CEX1008)

24. PACKING METHOD

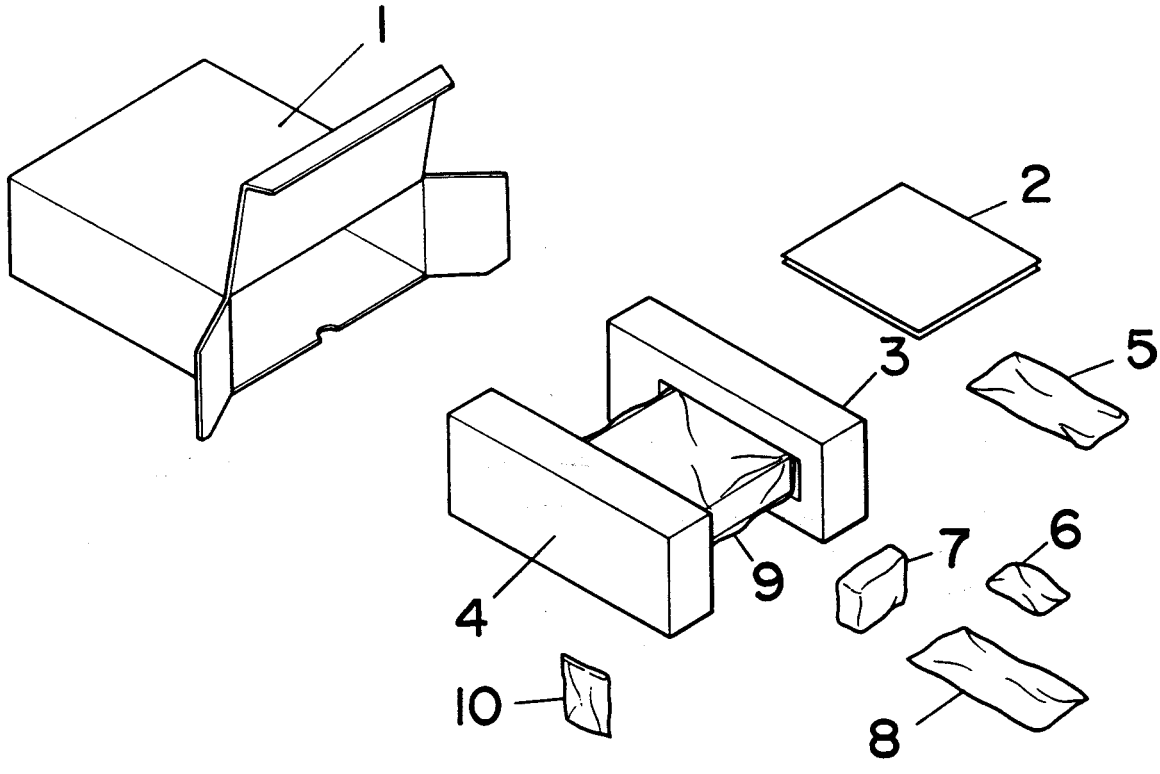


Fig. 32

• Parts List

Mark No.	Part No.	Description	
1	CHG1475	Carton	(KE-3090SDK)
	CHG1476	Carton	(KE-3090)
	CHG1471	Carton	(KE-3090B)
	CHG1479	Carton	(KE-3070QR)
	CHG1477	Carton	(KE-3060SDK)
	CHG1478	Carton	(KE-3060)
	CHG1473	Carton	(KE-3060B)
	CHG1480	Carton	(KE-3040)
2-1	CRD1216	Owners' Manual	(KE-3090SDK, 3060SDK)
	CRD1217	Owners' Manual	(KE-3090, 3060)
	CRD1218	Owner' s Manual (English , French , Italian)	(KE-3090B, 3060B)
	CRB1116	Owner' s Manual (Swedish)	(KE-3090B, 3060B)
	CRD1220	Owner' s Manual	(KE-3070QR, 3040)
2-2		Passport	(KE-3090SDK, 3060SDK)
2-3		Card	(except KE-3070QR, 3040)
2-4		Cautin Card	(KE-3090SDK, 3060SDK)
2-5		Cautin Card	(KE-3090SDK, 3060SDK)
3	CHP1098	Styrofoam	(KE-3090SDK, 3090B, 3060SDK, 3060, 3040)
	CHP1067	Styrofoam(R)	(KE-3090B, 3070QR, 3060B)
4	CHP1098	Styrofoam	(KE-3090SDK, 3090B, 3060SDK, 3060, 3040)
	CHP1066	Styrofoam(L)	(KE-3090B, 3070QR, 3060B)

Mark No.	Part No.	Description	
5	CEA1256	Accessory Assy	
5-1	CNS1260	Escutcheon	
5-2	CNS1261	Escutcheon	
6	CDE1456	Cord Assy	(except KE-3040)
7	CDE2053	Cord Assy	(except KE-3040)
	CDE2114	Cord Assy	(KE-3040)
8	CEA1257	Accessory Assy	
8-1	CDE1289	Cord	
8-2	CNC2346	Hook(×2)	
8-3	CNF-111	Strap	
8-4	CNV1009	Bush	
8-5		Screw Assy	
8-5-1	CBA-102	Screw	
8-5-2	CBA1002	Screw	
8-5-3	NF50FMC	Nut(×2)	
9	CEG-162	Polyethylene Bag	
10-1	CBA1074	Screw(×2)	(KE-3090B, 3060B)
10-2	CNC1379	Handle	(KE-3090B, 3060B)